



Lancaster
Laboratories

FILE COPY

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Type I Data Package

Prepared for:

Olin Corporation
Suite 200
3855 North Ocoee Street
Cleveland TN 37312

Project: Olin Wilmington, MA/6107120016
Surface Water Sample
Collected on 11/06/12

CHECKED FOR COMPLETENESS
OF PARAMETERS ORDERED BY:
Nicole Maljovec

SDG# OLN81

GROUP	SAMPLE NUMBERS
1348038	6854322

PA Cert. # 36-00037
NY Cert. # 10670
NJ Cert. # PA011
NC Cert. # 521
TX Cert. # T104704194-08A-TX

Through our technical processes and second person review of data, we have established that our data/deliverables are in compliance with the methods and project requirements unless otherwise noted or previously resolved with the client.

Authorized by:

Date: 11/28/2012

Dana M. Kauffman
Manager

Any questions or concerns you might have regarding this data package should be directed to your client representative, Nicole Maljovec at Ext. 1537.

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**Sample Reference List for SDG Number OLN81
with a Data Package Type of I
12670 - Olin Corporation
Project: Olin Wilmington, MA/6107120016**

Lab <u>Sample Number</u>	Lab <u>Sample Code</u>	<u>Client Sample Description</u>
6854322	SW-7-	OC-SW-EDSD/SW7-XXX Grab Surface Water

11/26/70 / 1348038 / 6854322 Surface - Water lot 1

Client: Olin Corporation	Client Project #: 6107120016
Address: 3855 North Ocoee St. Suite 200	Work Site ID: Wilmington, MA
Cleveland, TN 37312	Reports Sent To: James Cashwell
Phone: 423-336-4511	Fax: 423-336-1488
Requested Turnaround Time (SPECIFY)	Regulatory Programs: MADEP MCP <input checked="" type="checkbox"/> Superfund <input checked="" type="checkbox"/> Level II Package <input type="checkbox"/>
Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Report Requirements: EDD Requirements: MACTEC EQUIS EZ EDD <input type="checkbox"/>
(Lab Approval Required)	

Sample ID	Date/Time Collected	Sample Matrix (3)					Comments (Special Instructions)				
		Total # of Containers	Composite Matrix (C) or Grab (G)	Perchlorate (6850)	Dpx / Kemper (8000B - HPLC)	Hydroxide, MSH, UDMH (MSD 8315LC/MSMS)	Zn	AV	V	V	<-Preservative Type (4)
O-C-55-W-EN/FS/11-26-97	11/26/97 00:00	T	G	Su	6	2	-	-	-	-	-

Special Instructions For Lab

Notes:

- 1.) Fraction: T = Total, D = Dissolved, S = TCLP, C = SPLP, N = Not Applicable
- 2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank
- 3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water, SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil
- 4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water
- 5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial,

Cr+6 = 24 hour hold time
Formaldehyde = 3 day hold time
Ch. 44-C

Relinquished: Date: 11/26/97 Time: 16:00 Received: FedEx Date: 11/26/97 Time: 16:00
Relinquished: Date: 11/26/97 Time: 16:00 Received: FedEx Date: 11/26/97 Time: 16:00

2.9°C

Environmental Sample Administration *1348038*
Receipt Documentation Log

Client/Project: Olin CorpShipping Container Sealed: YES NODate of Receipt: 11/9/12Custody Seal Present *: YES NOTime of Receipt: 0920

* Custody seal was intact unless otherwise noted in the discrepancy section

Source Code: 50Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	2737	2.9	TB	WI	y	B	
2							
3							
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0**Paperwork Discrepancy/Unpacking Problems:**

Rec'd Sample OC-GW-4000-KX labeled as OC-GW-4040-XXX
identified by time collected

Rec'd Sample OC-GW-4045-XX labeled as OC-GW-4008-KX
identified by time collected

Correct per sampler. N/A 11/12/12

Unpacker Signature/Emp#: Pat Gyl Date/Time: 11/9/12 1228

Issued by Dept. 6042 Management

2174.06

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02726 Opex in Water

Water samples are pH adjusted to 9 with hydroxide solution. Filtration is performed followed by HPLC analysis. Separation is accomplished using a C18 column and ACN/phosphate buffer mobile phase. A UV detector at 230 nm is used for quantitation.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 8000B, December 1996.

02727 Kemppore in Water

Water samples are analyzed using a solid phase cleanup procedure followed by filtration and HPLC analysis. Separation is accomplished using a C18 column and phosphate buffer mobile phase. A UV detector at 230 nm is used for quantitation.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 8000B, December 1996.

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

Olin Corporation
Suite 200
3855 North Ocoee Street
Cleveland TN 37312

November 28, 2012

Project: Olin Wilmington, MA/6107120016

Submittal Date: 11/09/2012
Group Number: 1348038
SDG: OLN81
PO Number: REWI0012
Release Number: ERRE9813
State of Sample Origin: MA

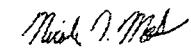
Client Sample Description
OC-SW-EDSD/SW7-XXX Grab Surface Water

Lancaster Labs (LLI) #
6854322

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC	AMEC	Attn: Kelly Chatterton
COPY TO		
ELECTRONIC	AMEC	Attn: Chris Ricardi
COPY TO		
ELECTRONIC	Olin Chemicals	Attn: James Cashwell
COPY TO		
1 COPY TO	Data Package Group	

Respectfully Submitted,



Nicole L. Maljovec
Principal Specialist Group Leader

(717) 556-7259

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value - The result is \geq the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

- A** TIC is a possible aldol-condensation product
- B** Analyte was also detected in the blank
- C** Pesticide result confirmed by GC/MS
- D** Compound quantitated on a diluted sample
- E** Concentration exceeds the calibration range of the instrument
- N** Presumptive evidence of a compound (TICs only)
- P** Concentration difference between primary and confirmation columns $>25\%$
- U** Compound was not detected
- X,Y,Z** Defined in case narrative

Inorganic Qualifiers

- B** Value is <CRDL, but \geq IDL
- E** Estimated due to interference
- M** Duplicate injection precision not met
- N** Spike sample not within control limits
- S** Method of standard additions (MSA) used for calculation
- U** Compound was not detected
- W** Post digestion spike out of control limits
- * Duplicate analysis not within control limits
- + Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Page 1 of 1

Sample Description: OC-SW-EDSD/SW7-XXX Grab Surface Water
Wilmington MA Superfund Site

LLI Sample # WW 6854322
LLI Group # 1348038
Account # 12670

Project Name: Olin Wilmington, MA/6107120016

Collected: 11/06/2012 09:30 by CTM

Olin Corporation

Suite 200

3855 North Ocoee Street

Submitted: 11/09/2012 09:20

Cleveland TN 37312

Reported: 11/28/2012 09:19

SW-7- SDG#: OLN81-01*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Dilution Factor
HPLC Organics	SW-846 8000B		ug/l	ug/l	ug/l	
02727 Kempore in Water	123-77-3	N.D.		1,000	230	1
	The holding time was not met. The client was notified and the data reported.					
	The response for Kempore in the continuing calibration verification standard is outside the acceptance limits. The samples from this client site have been known to cause this affect on our instrumentation due to the sample matrix. The sample data is reported.					
02726 Opex in Water	101-25-7	N.D.		100	20	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02727	Kempore in Water	SW-846 8000B	1	123190031A	11/15/2012 01:47	James H Place	1
02726	Opex in Water	SW-846 8000B	1	123180032A	11/15/2012 23:00	James H Place	1

Kempore Data

OLN61 0006

Case Narrative Conformance/Non-Conformance Summary



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Case Narrative/Conformance Summary

CLIENT: Olin Corporation
SDG: OLN81

Pesticide Residue Analysis

Fraction: Kempore

Sample #	Client ID	Matrix			Comments
		Liquid	Solid	DF	
6854322	OC-SW-EDSD/SW7-XXX	X		1	

See QC Reference List for Associated Batch QC Samples

SAMPLE RECEIPT:

Samples were received in good condition and within temperature requirements.

HOLDING TIME:

(Sample number(s): 6854322: Analysis: 02727)
The holding time was not met. The client was notified and the data reported.

PREPARATION/EXTRACTION/DIGESTION:

No problems were encountered.

CALIBRATION/STANDARDIZATION:

(Sample number(s): 6854322: Analysis: 02727)
For dual column analyses in which the calibration (initial and/or continuing) response is outside the acceptance criteria on one column and within criteria on the second column affected analytes are reported from the compliant column. The sample raw data identifies the column used to report each analyte.

(Sample number(s): 6854322: Analysis: 02727)
The response for Kempore in the continuing calibration verification standard is outside the acceptance limits. The samples from this client site have been known to cause this affect on our instrumentation due to the sample matrix. The sample data is reported.



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Case Narrative/Conformance Summary

CLIENT: Olin Corporation
SDG: OLN81

Pesticide Residue Analysis

Fraction: Kempore

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

MS/MSD

Matrix QC may not be included if site-specific QC were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, laboratory spike data (LCS) are provided.

SAMPLE ANALYSIS:

No problems were encountered with the analysis of the samples.

Abbreviation Key

UNSPK = Unspiked (for MS/MSD)	LOQ = Limit of Quantitation
MS = Matrix Spike	MDL = Method Detection Limit
MSD = Matrix Spike Duplicate	ND = Not Detected
BKG = Background (for Duplicate)	J = Estimated Value
D = Duplicate (DUP)	E= out of calibration range
LCS = Lab Control Sample	RE = Repreparation/Reanalysis
LCSD = Lab Control Sample Duplicate	* = Out of Specification

Narrative Reviewed and Approved 11/28/2012 by
(Date)

M. Susan Kreider
M. Susan Kreider
Senior Specialist

Quality Control and Calibration Summary Forms



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Quality Control Reference List
Pesticide Residue Analysis

CLIENT: Olin Corporation
SDG: OLN81

Fraction: Kempore

Analysis

Kempore in Water

Batch Number

123190031A

Sample Number

PBLK31319
LCS31319
LCSD31319
6854322

Analysis Date

11/14/2012 21:32:00
11/14/2012 21:42:00
11/14/2012 21:53:00
11/15/2012 01:47:00



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Quality Control Summary
Method Blank
Pesticide Residue Analysis
SDG: OLN81
Matrix: LIQUID

Fraction: Kempore

123190031A / PBLK31319	Analysis Date	Blank Results	Units	MDL	LOQ
Kempore in Water	11/14/12	N.D.	ug/l	230	1000



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Laboratories

Quality Control Summary
Laboratory Control Standard (LCS)
Laboratory Control Standard Duplicate(LCSD)

SDG: OLN81
Matrix: LIQUID

Pesticide Residue Analysis

Fraction: Kempore

LCS: LCS31319 LCSD: LCSD31319	Batch: 123190031A (Sample number(s): 6854322)							
	Spike Added ug/l	LCS Conc ug/l	LCSD Conc ug/l	LCS %Rec	LCSD %Rec	%Rec Limits	%RPD	%RPD Limits
Kempore in Water	9890	8898.95	7911.51	90	80	70-130	12	30

6D

INITIAL CALIBRATION - RETENTION TIME SUMMARY

Lab Name: Lancaster Laboratories

Contract:

Lab Code: Case No.:

SAS No.:

SDG No.:

Instrument: K3593ACalibration File: 1K11319GC Column (1) : SUP-PAH ID: 4.6 (mm)

Update File:

Date(s) Analyzed: 11/14/2012 11/14/2012

COMPOUND	RT OF STANDARDS					MIDPOINT <i>Level 1</i> RT	RT WINDOW	
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5		FROM	TO
Kempore	3.50	3.50	3.50	3.50	3.50	3.50	3.00	4.00



JL
11/15/12

INITIAL CALIBRATION - CALIBRATION FACTOR SUMMARY

Lab Name: Lancaster Laboratories

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument: K3593ACalibration File: 1K11319GC Column (1): SUP-PAHID: 4.6 (mm)Date(s) Analyzed: 11/14/2012 11/14/2012

COMPOUND	CALIBRATION FACTORS					MEAN	%RSD
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5		
Kempore	3.19E+00	3.30E+00	3.60E+00	3.49E+00	3.59E+00	3.44E+00	5.3

Average % RSD: 5.3

Calibration File Name: C:\CPWIN\DATA1\1K11319.CAL Version = 10

External standard calibration

Standard injection volume = 1

No sample weight correction

Area reject threshold = 0

Reference peak area reject threshold = 500

Amount units = ug/L

1 components with 5 levels each

1 Kempore

Retention time = 3.503 min., Search window = 0.500 min.

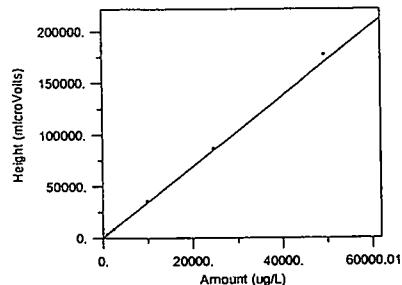
Low alarm amount = 0, High alarm amount = 0

Group number = 0, Component constant = 0

No retention time reference component

Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	989.400	3155.6	3.189423	1K11319.09A	11/14/2012 9:10:
2	2473.500	8164.6	3.30083	1K11319.08A	11/14/2012 9:00:
3	9894.000	35656.6	3.603862	1K11319.07A	11/14/2012 8:49:
4	24735.000	86437.9	3.49456	1K11319.06A	11/14/2012 8:39:
5	49470.000	177614.5	3.590348	1K11319.05A	11/14/2012 8:28:



Calibration formula: Y = 3.436 X

Fit type = Avg CF with equal weighting, forced to origin

Coefficient of determination = 0.9970, Average error = 4.44%

Average CF = 3.4358 with RSD = 5.34%

6D

INITIAL CALIBRATION - RETENTION TIME SUMMARY

Lab Name: Lancaster Laboratories

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument: K3593ACalibration File: 1K11321GC Column (1): SUP-PAHID: 4.6 (mm)

Update File:

Date(s) Analyzed: 11/16/2012 11/16/2012

COMPOUND	RT OF STANDARDS					MIDPOINT <i>Level 1</i> RT	RT WINDOW	
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5		FROM	TO
Kempore	3.19	3.19	3.19	3.19	3.19	3.19	3.04	3.34

H. S. G.
11/20/12

6E

INITIAL CALIBRATION - CALIBRATION FACTOR SUMMARY

Lab Name: Lancaster Laboratories

Contract:

Lab Code: K3593A

Case No.:

SAS No.:

SDG No.:

Instrument: K3593ACalibration File: 1K11321GC Column (1): SUP-PAHID: 4.6 (mm)Date(s) Analyzed: 11/16/2012 11/16/2012

COMPOUND	CALIBRATION FACTORS					MEAN	%RSD
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5		
Kempore	9.26E-01	1.01E+00	1.39E+00	1.45E+00	1.76E+00	1.31E+00	26.1

Average % RSD: 26.1

- Linear



 11/26/12

Calibration File Name: C:\CPWIN\DATA1\1K11321.CAL Version = 7

External standard calibration

Standard injection volume = 1

No sample weight correction

Area reject threshold = 0

Reference peak area reject threshold = 500

Amount units = ug/L

1 components with 5 levels each

1 Kempre

Retention time = 3.188 min., Search window = 0.500 min.

Low alarm amount = 0, High alarm amount = 0

Group number = 0, Component constant = 0

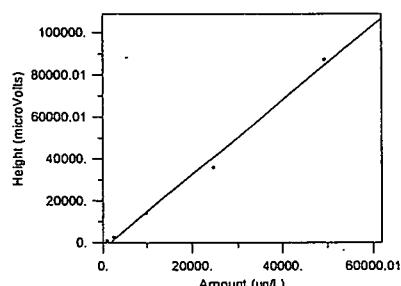
No retention time reference component

Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	989.400	915.7	0.92554	1K11321.08A	11/16/2012 4:54:
2	2473.500	2508.4	1.014126	1K11321.07A	11/16/2012 4:43:
3	9894.000	13779.3	1.392697	1K11321.06A	11/16/2012 4:32:
4	24735.000	35852.3	1.449455	1K11321.05A	11/16/2012 4:22:
5	49470.000	87198.6	1.762656	1K11321.04A	11/16/2012 4:11:

Melissa A. McDermott
Melissa A. McDermott
Senior Chemist Group Leader

NOV 20 2012



Calibration formula: Y = 1.771 X + -2961.997

Fit type = Linear with equal weighting

Coefficient of determination = 0.9927, Average error = 24.36%

Average CF = 1.3089 with RSD = 26.09%

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument: K3593A

Init. Calib Date(s): 11/14/12

11/14/12

GC Column (1) : SUP-PAH

ID: 4.6 (mm)

Date Analyzed: 11/14/12

Lab File ID: 1K11319.21R

Time Analyzed: 23:18

Lab Standard ID: KEMP3EY

Initial Calibration: 1K11319

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Kempore	3.50	3.00	4.00	6732.26	9894.00	-32

Average of %D: 32

Compounds 1

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument: K3593A

Init. Calib Date(s): 11/14/12 11/14/12

GC Column (1) : SUP-PAH

ID: 4.6 (mm)

Date Analyzed: 11/15/12

Lab File ID: 1K11319.32R

Time Analyzed: 1:15

Lab Standard ID: KEMP3EZ

Initial Calibration: 1K11319

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Kempore	3.50	3.00	4.00	4745.80	9894.00	-52
Compounds 1						Average of %D: 52

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument: K3593A

Init. Calib Date(s): 11/14/12 11/14/12

GC Column (1) : SUP-PAH

ID: 4.6 (mm)

Date Analyzed: 11/15/12

Lab File ID: 1K11319.36R

Time Analyzed: 1:58

Lab Standard ID: KEMP3FA

Initial Calibration: 1K11319

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT	NOM AMOUNT	%D
Kempore	3.50	3.00	4.00	5464.94	9894.00	-45
Compounds 1						Average of %D: 45

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument: K3593A

Init. Calib Date(s): 11/16/12

11/16/12

GC Column (1) : SUP-PAH

ID: 4.6 (mm)

Date Analyzed: 11/16/12

Lab File ID: 1K11321.20R

Time Analyzed: 19:01

Lab Standard ID: KEMP3EY

Initial Calibration: 1K11321

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT	NOM AMOUNT	%D
Kempore	3.19	3.04	3.34	6689.27	9894.00	-32
Compounds 1	Average of %D: 32					

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument: K3593A

Init. Calib Date(s): 11/16/12 11/16/12

GC Column (1) : SUP-PAH

ID: 4.6 (mm)

Date Analyzed: 11/16/12

Lab File ID: 1K11321.31R

Time Analyzed: 20:58

Lab Standard ID: KEMP3EZ

Initial Calibration: 1K11321

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Kempore	3.19	3.04	3.34	5603.22	9894.00	-43
Compounds 1						Average of %D: 43

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument: K3593A

Init. Calib Date(s): 11/16/12 11/16/12

GC Column (1) : SUP-PAH

ID: 4.6 (mm)

Date Analyzed: 11/16/12

Lab File ID: 1K11321.35R

Time Analyzed: 21:41

Lab Standard ID: KEMP3FA

Initial Calibration: 1K11321

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Kempore	3.19	3.04	3.34	5152.02	9894.00	-48
Compounds 1						Average of %D: 48

8D
ANALYTICAL SEQUENCE

Sequence: 1K11319

Lab Name: Lancaster laboratories

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

GC Column: SUP-PAH

ID: 4.6

Instrument: K3593A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File
001		CONDITIONER	11/14/2012	19:45:13	1K11319
002		CONDITIONER	11/14/2012	19:56:07	1K11319
003		CONDITIONER	11/14/2012	20:06:59	1K11319
004		CONDITIONER	11/14/2012	20:17:37	1K11319
005	KEMP5AA	KEMP51224C	11/14/2012	20:28:15	1K11319
006	KEMP4AA	KEMP41224C	11/14/2012	20:38:52	1K11319
007	KEMP3AA	KEMP31224C	11/14/2012	20:49:30	1K11319
008	KEMP2AA	KEMP21224C	11/14/2012	21:00:07	1K11319
009	KEMP1AA	KEMP11224C	11/14/2012	21:10:45	1K11319
010	MDKRXAA	MDKRX1224C	11/14/2012	21:21:22	1K11319
011	PBLK31319	BLANKA	11/14/2012	21:32:00	1K11319
012	LCS31319	LCSA	11/14/2012	21:42:37	1K11319
013	LCSD31319	LCSDA	11/14/2012	21:53:14	1K11319
014	PBLK32319	BLANKA	11/14/2012	22:03:52	1K11319
015		MDL1	11/14/2012	22:14:29	1K11319
016		MDL2	11/14/2012	22:25:07	1K11319
017		MDL3	11/14/2012	22:35:44	1K11319
018		MDL4	11/14/2012	22:46:22	1K11319
019		MDL5	11/14/2012	22:56:59	1K11319
020		MDL6	11/14/2012	23:07:36	1K11319
021	KEMP3EY	KEMP31224C	11/14/2012	23:18:14	1K11319
022		MDL7	11/14/2012	23:28:52	1K11319
023	404S1	6854278	11/14/2012	23:39:29	1K11319
024	404M1	6854279	11/14/2012	23:50:07	1K11319
025	400BR	6854280	11/15/2012	00:01:23	1K11319
026	400D1	6854281	11/15/2012	00:12:00	1K11319
027	404BR	6854282	11/15/2012	00:22:38	1K11319
028	400D2	6854283	11/15/2012	00:33:16	1K11319
029	404S2	6854284	11/15/2012	00:43:53	1K11319
030	404M2	6854285	11/15/2012	00:54:30	1K11319
031	404M2	6854286	11/15/2012	01:05:08	1K11319
032	KEMP3EZ	KEMP31224C	11/15/2012	01:15:45	1K11319
033	404M2	6854287	11/15/2012	01:26:23	1K11319

8D
ANALYTICAL SEQUENCE

Sequence: 1K11319

Lab Name: Lancaster laboratories

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

GC Column: SUP-PAH

ID: 4.6

Instrument: K3593A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File
034	404MD	6854289	11/15/2012	01:37:00	1K11319
035	SW-7-	6854322	11/15/2012	01:47:38	1K11319
036	KEMP3FA	KEMP31224C	11/15/2012	01:58:15	1K11319

8D
ANALYTICAL SEQUENCE

Sequence: 1K11321

Lab Name: Lancaster laboratories

Contract:

Lab Code:

Case No.:

SAS No:

SDG No.:

GC Column: SUP-PAH

ID: 4.6

Instrument: K3593A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File
001		CONDITIONER	11/16/2012	15:39:36	1K11321
002		CONDITIONER	11/16/2012	15:50:13	1K11321
003		CONDITIONER	11/16/2012	16:00:50	1K11321
004	KEMP5AA	KEMP51224C	11/16/2012	16:11:27	1K11321
005	KEMP4AA	KEMP41224C	11/16/2012	16:22:04	1K11321
006	KEMP3AA	KEMP31224C	11/16/2012	16:32:42	1K11321
007	KEMP2AA	KEMP21224C	11/16/2012	16:43:18	1K11321
008	KEMP1AA	KEMP11224C	11/16/2012	16:53:56	1K11321
009	MDKRXAA	MDKRX1224C	11/16/2012	17:04:33	1K11321
010	PBLK31319	BLANKA	11/16/2012	17:15:10	1K11321
011	LCS31319	LCSA	11/16/2012	17:25:47	1K11321
012	LCSD31319	LCSDA	11/16/2012	17:36:24	1K11321
013	PBLK32319	BLANKA	11/16/2012	17:47:02	1K11321
014		MDL1	11/16/2012	17:57:39	1K11321
015		MDL2	11/16/2012	18:08:16	1K11321
016		MDL3	11/16/2012	18:18:53	1K11321
017		MDL4	11/16/2012	18:29:30	1K11321
018		MDL5	11/16/2012	18:40:08	1K11321
019		MDL6	11/16/2012	18:50:45	1K11321
020	KEMP3EY	KEMP31224C	11/16/2012	19:01:22	1K11321
021		MDL7	11/16/2012	19:11:59	1K11321
022	404S1	6854278	11/16/2012	19:22:36	1K11321
023	404M1	6854279	11/16/2012	19:33:13	1K11321
024	400BR	6854280	11/16/2012	19:43:51	1K11321
025	400D1	6854281	11/16/2012	19:55:06	1K11321
026	404BR	6854282	11/16/2012	20:05:44	1K11321
027	400D2	6854283	11/16/2012	20:16:21	1K11321
028	404S2	6854284	11/16/2012	20:26:58	1K11321
029	404M2	6854285	11/16/2012	20:37:35	1K11321
030	404M2	6854286	11/16/2012	20:48:12	1K11321
031	KEMP3EZ	KEMP31224C	11/16/2012	20:58:49	1K11321
032	404M2	6854287	11/16/2012	21:09:27	1K11321
033	404MD	6854289	11/16/2012	21:20:04	1K11321

8D
ANALYTICAL SEQUENCE

Sequence: 1K11321

Lab Name: Lancaster laboratories

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

GC Column: SUP-PAH

ID: 4.6

Instrument: K3593A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File
034	SW-7-	6854322	11/16/2012	21:30:41	1K11321
035	KEMP3FA	KEMP31224C	11/16/2012	21:41:18	1K11321

Sample Data

OLN61 0032



Lancaster
Laboratories

LOQ/MDL Summary
Pesticide Residue Analysis

SDG: OLN81

Fraction: Kemptore

02727: Kemptore in Water Analyte Name	Default MDL	Default LOQ	Units
Kemptore in Water	230	1,000	ug/l

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6854322

SW-7-

Sample ID: AA

Batchnumber: 123190031A

Sample Amount: 10 ml

Total Volume: 10 ml

Analyst: 1566

SDG: OLN81

State: MA

Analyses: 02727

Analysis Report (A)

Injected on : NOV 15, 2012 01:47:38
 Instrument : CP09-K3593A
 Result file : 1K11319.35R
 Calibration file : 1K11319.CAL
 Method file : KEMP.MET

Analysis Report (B)

Injected on : NOV 15, 2012 01:47:38
 Instrument :
 Result file :
 Calibration file :
 Method file :

Peak name	Min	R.T.	Max	Height	Amount
Kempore	3.00	3.58	4.00	94	27.430725

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
<input checked="" type="checkbox"/> Kempore	_____	_____	<1000	<230	_____	_____	_____

Units: ug/l

Reviewed by: _____

James H. Place
Senior Chemist

Verified by: _____

Date: NOV 15 2012

Date: NOV 28 2012

%RPD = High - Low Amount divided by the Average times 100

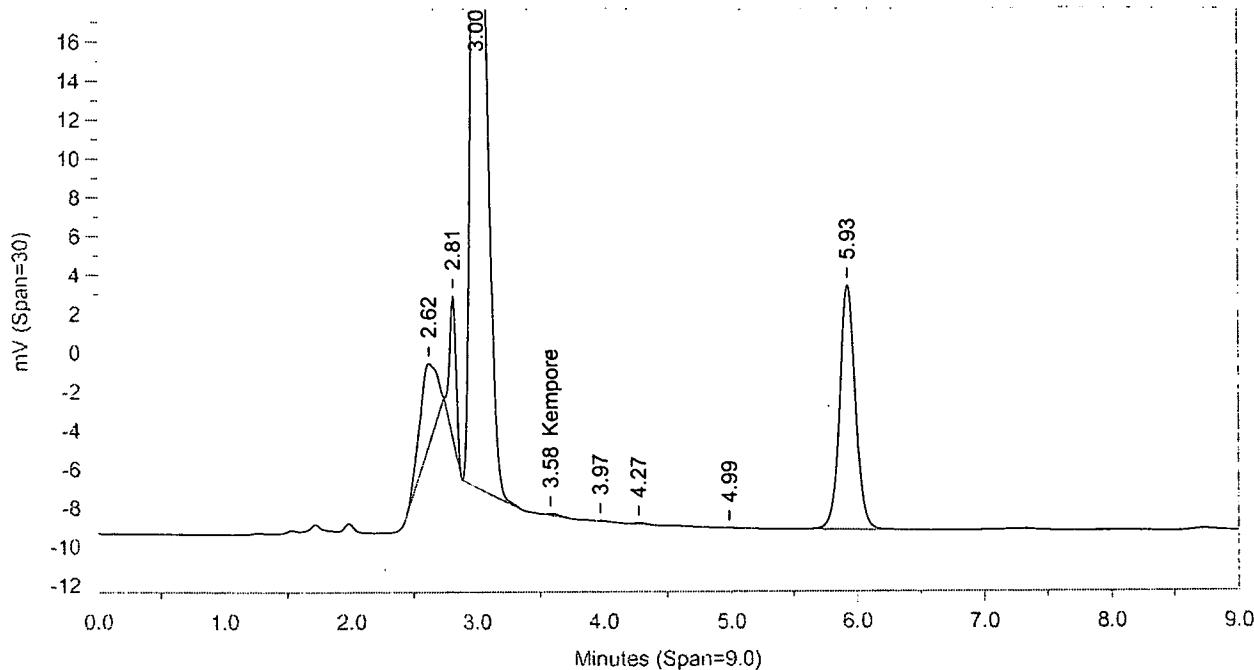
Higher Amount Found

* Recovery outside QC Limits

Printed on: 11/15/2012 14:26:23

OLN81 0034

Kempore in water



Sample Name:6854322 AASW-7- T 123190031A 02727A

Instrument ID:CP09--K3593A Injected on: 11/15/2012 1:38:38 AM
 Volume Inj. per column: 1 HPLC Column ID: Capcell CN, 250mmX4.6mmX5um
 Sample Amount: 10 Dilution Factor: 10
 Heading 2 = 100% Phosphate buffer
 Raw File: C:\CPWIN\DATA1\1K11319.35R
 Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4	Area	Width: 0.1	Area Reject: 0
Calib. Type: External		Quantitation: HEIGHT	

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.617	4344	41260	.207	.	
2.81	7355	25008	.074	.	
3.005	32841	318192	.161	.	
3.579	94	665	.136	27.4307	Kempore
3.974	34	183	.116	.	
4.272	72	507	.155	.	
4.985	13	108	.14	.	
5.93	12637	107841	.128	.	

FILES:

Area file: C:\CPWIN\DATA1\1K11319.35A
 Method file: C:\CPWIN\DATA1\KEMP.MET
 Calibration File: C:\CPWIN\DATA1\1K11319.CAL
 Format File: C:\CPWIN\DATA1\FORM.FMT
 Area file created on: 11/15/2012 1:47:46 AM
 File reported on: 11/15/2012 at 1:47:47 AM

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6854322

Sample Amount: 10 ml

SW-7-

Sample ID: AA

Batchnumber: 123190031A

Total Volume: 10 ml

Analyst: 1566

SDG: OLN81

State: MA

Analyses: 02727

Analysis Report (A)

Injected on : NOV 16, 2012 21:30:41
 Instrument : CP09-K3593A
 Result file : 1K11321.34R
 Calibration file : 1K11321.CAL
 Method file : KEMPB.MET

Analysis Report (B)

Injected on : NOV 16, 2012 21:30:41
 Instrument :
 Result file :
 Calibration file :
 Method file :

Summary Report

<u>Compound Name</u>	<u>Column</u>	<u>Amount Found</u>	<u>LOQ</u>	<u>MDL</u>	<u>Qualifiers</u>	<u>%RPD</u>	<u>Comments</u>
<input checked="" type="checkbox"/> Kempore			<1000	<230			
Units: ug/l							
Reviewed by:		NOV 20 2012					 Valeria L. Tomeyko President & President
Date:							

Reviewed by: _____

Date: NOV 20 2012

Verified by: _____

Date: NOV 28 2012

%RPD = High - Low Amount divided by the Average times 100

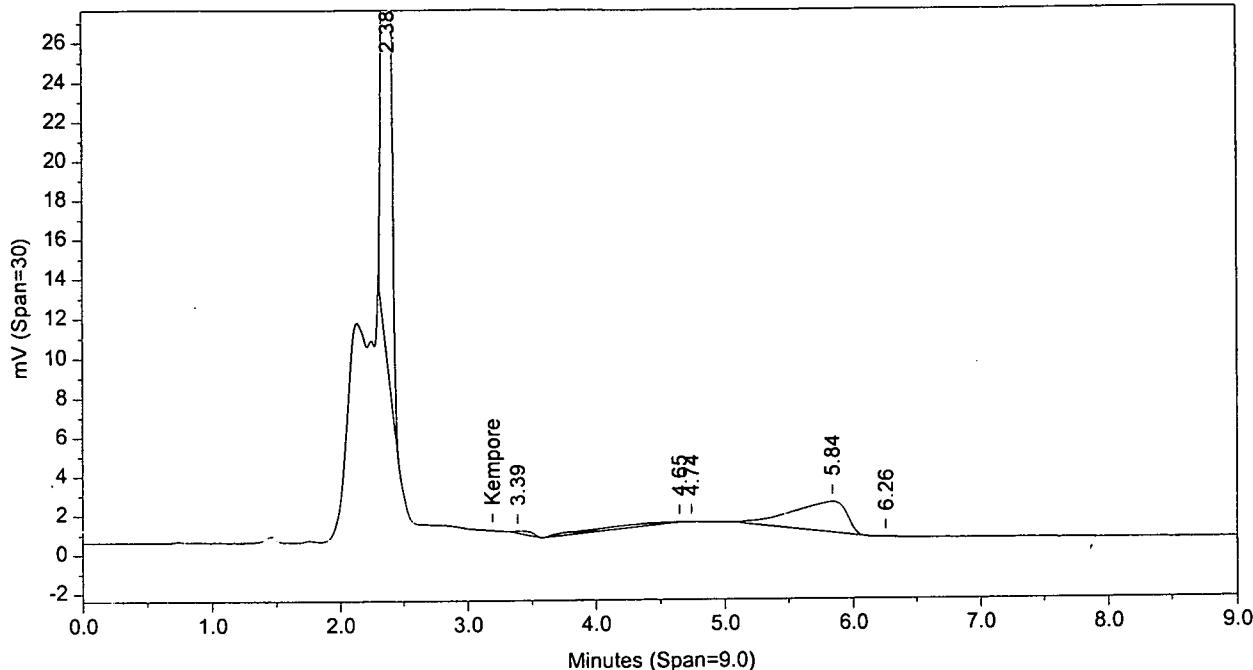
Higher Amount Found

* Recovery outside QC Limits

Printed on: 11/20/2012 18:18:25

OLN81 0036

Kempore in water



Sample Name: 6854322 AASW-7- T 123190031A 02727A

Instrument ID: CP09--K3593A

Injected on: 11/16/2012, 9:21:41 PM

Volume Inj. per column: 1

HPLC Column ID: Supelcosil LC PAH, 250mmX4.6mmX5μm

Sample Amount: 10

Dilution Factor: 10

Heading 2 = 100% Phosphate buffer

Raw File: C:\CPWIN\DATA1\K11321.34R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4	Area	Width: 0.1	Area Reject: 0
Calib. Type: External		Quantitation: HEIGHT	

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.384	73861	272268	.062	.	
3.389	118	1523	.198	.	
4.649	16	7187	.698	.	
4.743	14	152	.223	.	
5.837	1572	45055	.673	.	
6.261	26	178	.154	.	

FILES:

Area file: C:\CPWIN\DATA1\K11321.34A

Method file: C:\CPWIN\DATA1\KEMPB.MET

Calibration File: C:\CPWIN\DATA1\K11321.CAL

Format File: C:\CPWIN\DATA1\FORMAT.FMT

Area file created on: 11/20/2012 1:58:44 PM

File reported on: 11/20/2012 at 1:58:45 PM

Standards Data

Lancaster Laboratories

CHROM PERFECT SEQUENCE FILE

Sequence File: \\cp9\C-Drive\CPWIN\DATA1\1K11319.seq

Chromatography Directory: \\cp9\C-Drive\CPWIN\data1

Method Directory: \\cp9\C-Drive\CPWIN\data1

Number of Entries: 36

<u>Samplename</u>	<u>VP</u>	<u>Code</u>	<u>ID</u>	<u>FileName</u>	<u>Method</u>	<u>Samp Amt</u>	<u>DF</u>	<u>Int Std</u>	<u>C</u>	<u>Batch Number</u>	<u>Analysis</u>
1 CONDITIONER		MISC	AA	1K11319.01R	KEMP.MET	1	1	1	0	1231899999	
2 CONDITIONER		MISC	AA	1K11319.02R	KEMP.MET	1	1	1	0	1231899999	
3 CONDITIONER		MISC	AA	1K11319.03R	KEMP.MET	1	1	1	0	1231899999	
4 CONDITIONER		MISC	AA	1K11319.04R	KEMP.MET	1	1	1	0	1231899999	
5 KEMP51224C		ICAL	AA	1K11319.05R	KEMP.MET	1	1	1	5	1231899999	
6 KEMP41224C		ICAL	AA	1K11319.06R	KEMP.MET	1	1	1	4	1231899999	
7 KEMP31224C		ICAL	AA	1K11319.07R	KEMP.MET	1	1	1	3	1231899999	
8 KEMP21224C		ICAL	AA	1K11319.08R	KEMP.MET	1	1	1	2	1231899999	
9 KEMP11224C		ICAL	AA	1K11319.09R	KEMP.MET	1	1	1	1	1231899999	
10 MDKRX1224C		ICAL	AA	1K11319.10R	KEMP.MET	1	1	1	0	1231899999	
11 BLANKA 11/14/12		BLK	AA	1K11319.11R	KEMP.MET	10	10	1	0	123190031A	02727
12 LCSA 11/14/12		LCS	AA	1K11319.12R	KEMP.MET	10	10	1	0	123190031A	02727
13 LCSDA 11/14/12		LCSD	AA	1K11319.13R	KEMP.MET	10	10	1	0	123190031A	02727
14 BLANKA 11/14/12		BLK	AA	1K11319.14R	KEMP.MET	10	10	1	0	123190032A	
15 MDL1 11/14/12		MDL	AA	1K11319.15R	KEMP.MET	10	10	1	0	123190032A	
16 MDL2 11/14/12		MDL	AA	1K11319.16R	KEMP.MET	10	10	1	0	123190032A	
17 MDL3 11/14/12		MDL	AA	1K11319.17R	KEMP.MET	10	10	1	0	123190032A	
18 MDL4 11/14/12		MDL	AA	1K11319.18R	KEMP.MET	10	10	1	0	123190032A	
19 MDL5 11/14/12		MDL	AA	1K11319.19R	KEMP.MET	10	10	1	0	123190032A	
20 MDL6 11/14/12		MDL	AA	1K11319.20R	KEMP.MET	10	10	1	0	123190032A	
21 KEMP31224C		CCAL	EY	1K11319.21R	KEMP.MET	1	1	1	0	1231899999	
22 MDL7 11/14/12		MDL	AA	1K11319.22R	KEMP.MET	10	10	1	0	123190032A	
23 6854278		T	AA	1K11319.23R	KEMP.MET	10	10	1	0	123190031A	02727
24 6854279		T	AA	1K11319.24R	KEMP.MET	10	10	1	0	123190031A	02727
25 6854280		T	AA	1K11319.25R	KEMP.MET	10	10	1	0	123190031A	02727
26 6854281		T	AA	1K11319.26R	KEMP.MET	10	10	1	0	123190031A	02727
27 6854282		T	AA	1K11319.27R	KEMP.MET	10	10	1	0	123190031A	02727
28 6854283		T	AA	1K11319.28R	KEMP.MET	10	10	1	0	123190031A	02727
29 6854284		T	AA	1K11319.29R	KEMP.MET	10	10	1	0	123190031A	02727
30 6854285		T	AA	1K11319.30R	KEMP.MET	10	10	1	0	123190031A	02727
31 6854286MS		MS	AA	1K11319.31R	KEMP.MET	10	10	1	0	123190031A	02727
32 KEMP31224C		CCAL	EZ	1K11319.32R	KEMP.MET	1	1	1	0	1231899999	
33 6854287MSD		MSD	AA	1K11319.33R	KEMP.MET	10	10	1	0	123190031A	02727
34 6854289		T	AA	1K11319.34R	KEMP.MET	10	10	1	0	123190031A	02727
35 6854322		T	AA	1K11319.35R	KEMP.MET	10	10	1	0	123190031A	02727
36 KEMP31224C		CCAL	FA	1K11319.36R	KEMP.MET	1	1	1	0	1231899999	

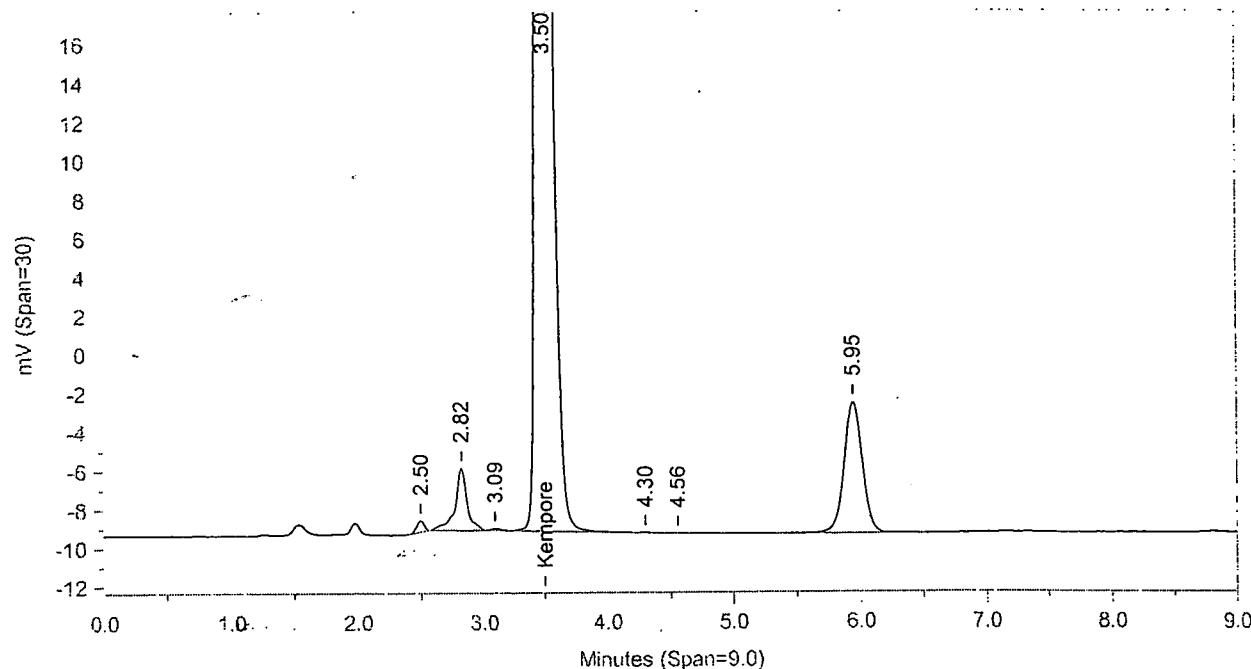
Set-up by:

Date: 11/14/12

11/14/2012

OLN61 0039

Kempore in water



Sample Name: KEMP51224C AAKEMPSAA ICAL 1231899999A

Instrument ID: CP09--K3593A

Volume Inj. per column: 1

Sample Amount: 1

Heading 2 = 100% Phosphate buffer

Raw File: C:\CPWIN\DATA1\IK11319.05R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4 Area Width: 0.1 Area Reject: 0

Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.496	596	2638	.081		
2.822	3237	21266	.078		
3.09	111	626	.097		
3.501	177614	1093572	.093	266923.9	Kempore
4.301	18	130	.153		
4.555	14	199	.276		
5.946	6777	67855	.151		

FILES:

Area file: C:\CPWIN\DATA1\IK11319.05A

Method file: C:\CPWIN\DATA1\KEMP.MET

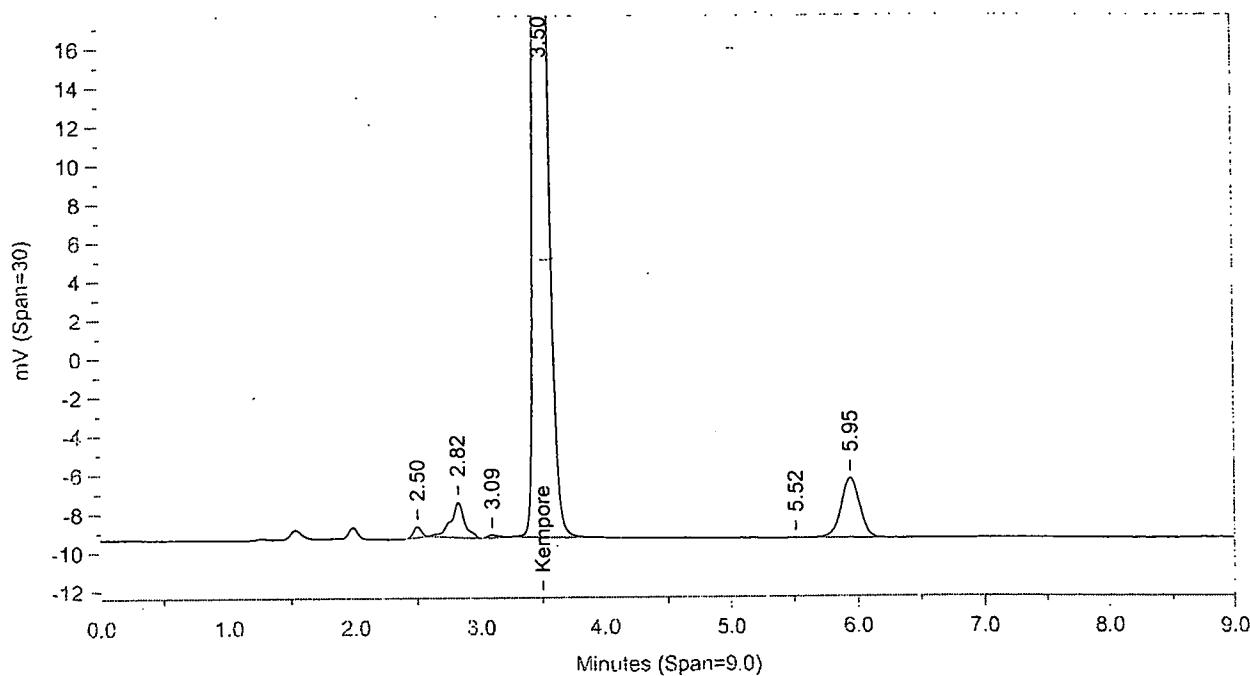
Calibration File: C:\CPWIN\DATA1\IK11319.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/14/2012 8:28:22 PM

File reported on: 11/14/2012 at 8:28:23 PM

Kempore in water



Sample Name: KEMP41224C AAKEMP4AA ICAL 1231899999A

Instrument ID: CP09-K3593A

Injected on: 11/14/2012 8:29:52 PM

Volume Inj. per column: 1

HPLC Column ID: Capcell CN, 250mmX4.6mmX5um

Sample Amount: 1

Dilution Factor: 1

Heading 2 = 100% Phosphate buffer

Raw File: C:\CPWIN\DATA1\1K11319.06R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4 Area Width: 0.1 Area Reject: 0

Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.501	556	2501	.079		
2.824	1804	13780	.095		
3.095	140	885	.136		
3.501	86438	533117	.093	32147.54	Kempore
5.517	5	40	.185		
5.947	3084	31135	.153		

FILES:

Area file: C:\CPWIN\DATA1\1K11319.06A

Method file: C:\CPWIN\DATA1\KEMP.MET

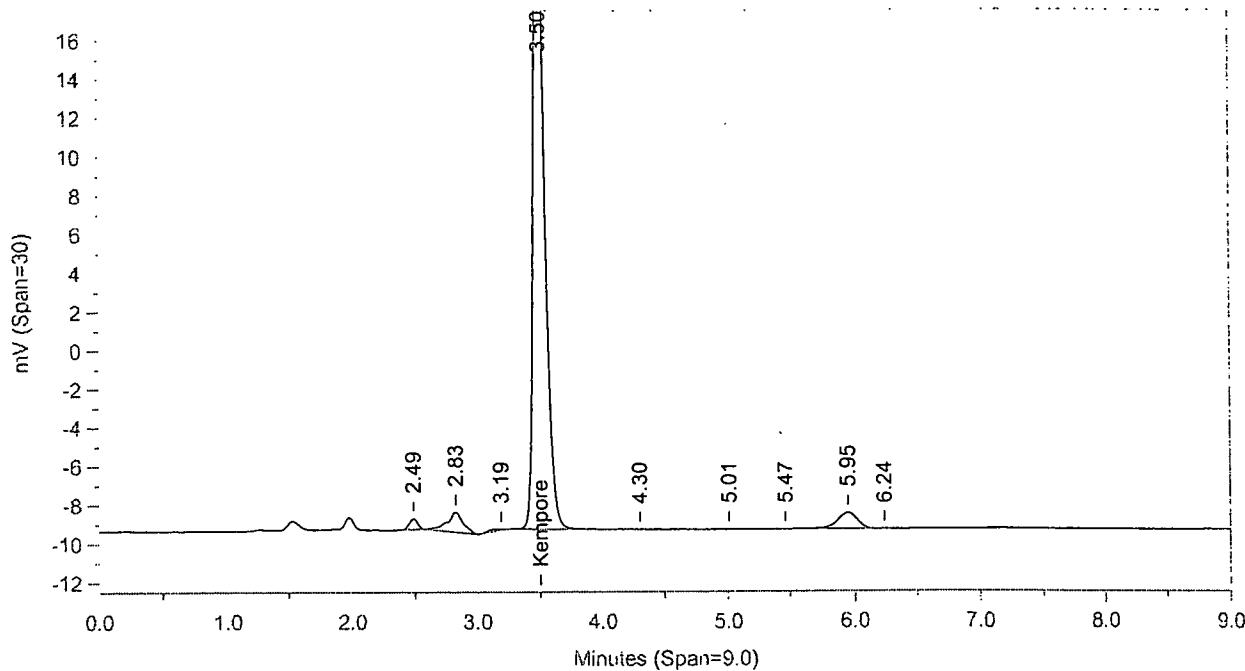
Calibration File: C:\CPWIN\DATA1\1K11319.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/14/2012 8:39:00 PM

File reported on: 11/14/2012 at 8:39:01 PM

Kempore in water



Sample Name:KEMP31224C AAKEMP3AA ICAL 1231899999A

Instrument ID:CP09-K3593A

Volume Inj. per column: 1

Sample Amount: 1

Heading 2 = 100% Phosphate buffer

Raw File: C:\CPWIN\DATA1\1K11319.07R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4 Area Width: 0.1 Area Reject: 0

Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.49	549	2548	.076	.	
2.833	1037	9077	.15	.	
3.188	52	841	.154	.	
3.5	35657	219611	.093	13304.16	Kempore
4.304	9	99	.265	.	
5.015	11	94	.221	.	
5.466	7	25	.065	.	
5.951	835	9024	.161	.	
6.24	6	41	.164	.	

FILES:

Area file: C:\CPWIN\DATA1\1K11319.07A

Method file: C:\CPWIN\DATA1\KEMP.MET

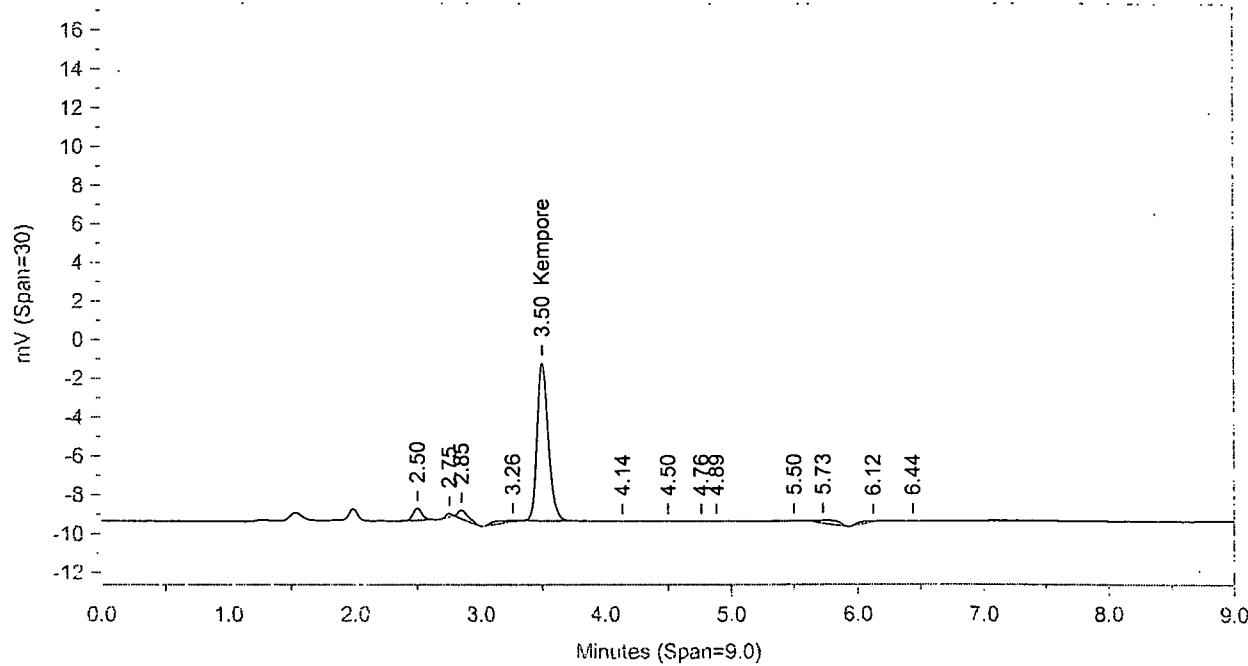
Calibration File: C:\CPWIN\DATA1\1K11319.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/14/2012 8:49:38 PM

File reported on: 11/14/2012 at 8:49:39 PM

Kempore in water



Sample Name: KEMP21224C AAKEMP2AA ICAL 1231899999A

Instrument ID: CP09-K3593A

Volume Inj. per column: 1

Sample Amount: 1

Heading 2 = 100% Phosphate buffer

Raw File: C:\CPWIN\DATA1\1K11319.08R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4 Area Width: 0.1 Area Reject: 0

Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.501	629	3185	.08		
2.748	180	588	.068		
2.846	451	2395	.126		
3.261	58	1610	.239		
3.501	8165	50343	.093	3531.217	Kempore
4.138	7	24	.067		
4.499	6	27	.12		
4.763	6	18	.083		
4.888	7	108	.324		
5.505	6	29	.085		
5.733	151	2241	.287		
6.124	54	953	.166		
6.441	6	31	.103		

FILES:

Area file: C:\CPWIN\DATA1\1K11319.08A

Method file: C:\CPWIN\DATA1\KEMP.MET

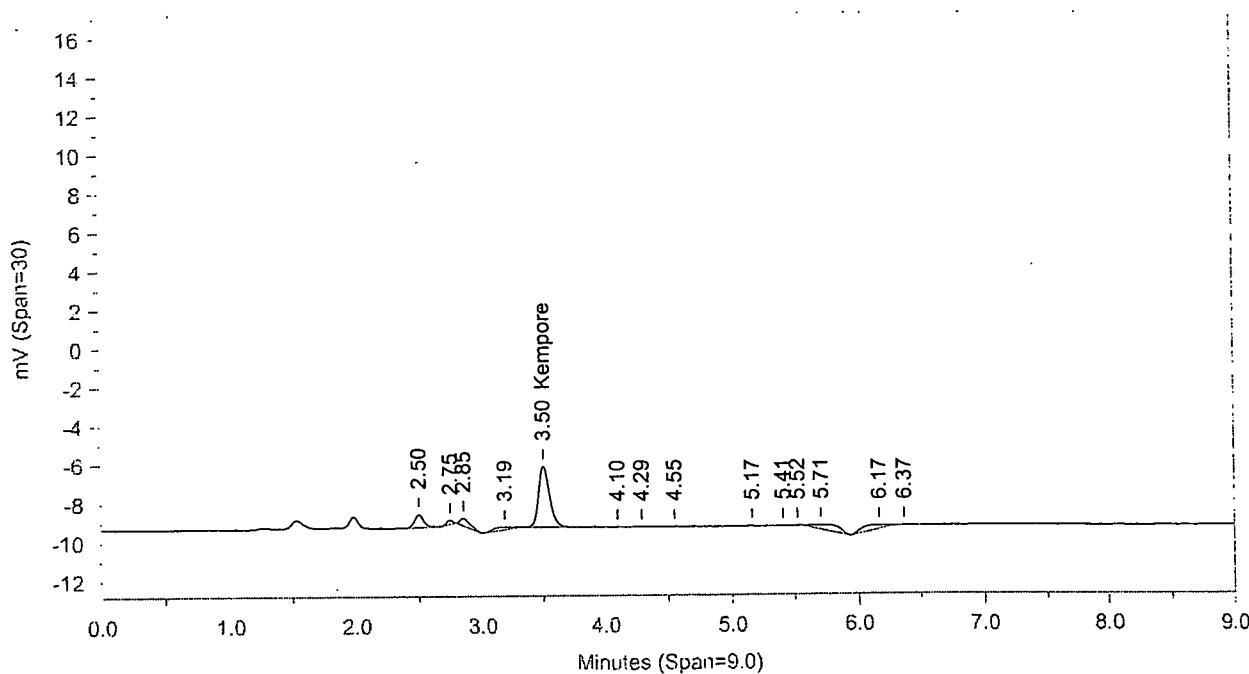
Calibration File: C:\CPWIN\DATA1\1K11319.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/14/2012 9:00:14 PM

File reported on: 11/14/2012 at 9:00:16 PM

Kempore in water



Sample Name: KEMP11224C AAKEMPIAA ICAL 1231899999A

Instrument ID: CP09-K3593A Injected on: 11/14/2012 9:01:45 PM
 Volume Inj. per column: 1 HPLC Column ID: Capcell CN, 250mmX4.6mmX5um
 Sample Amount: 1 Dilution Factor: 1
 Heading 2 = 100% Phosphate buffer
 Raw File: C:\CPWIN\DATA1\1K11319.09R
 Analyst: 1566

Integration & Calculation Parameters:

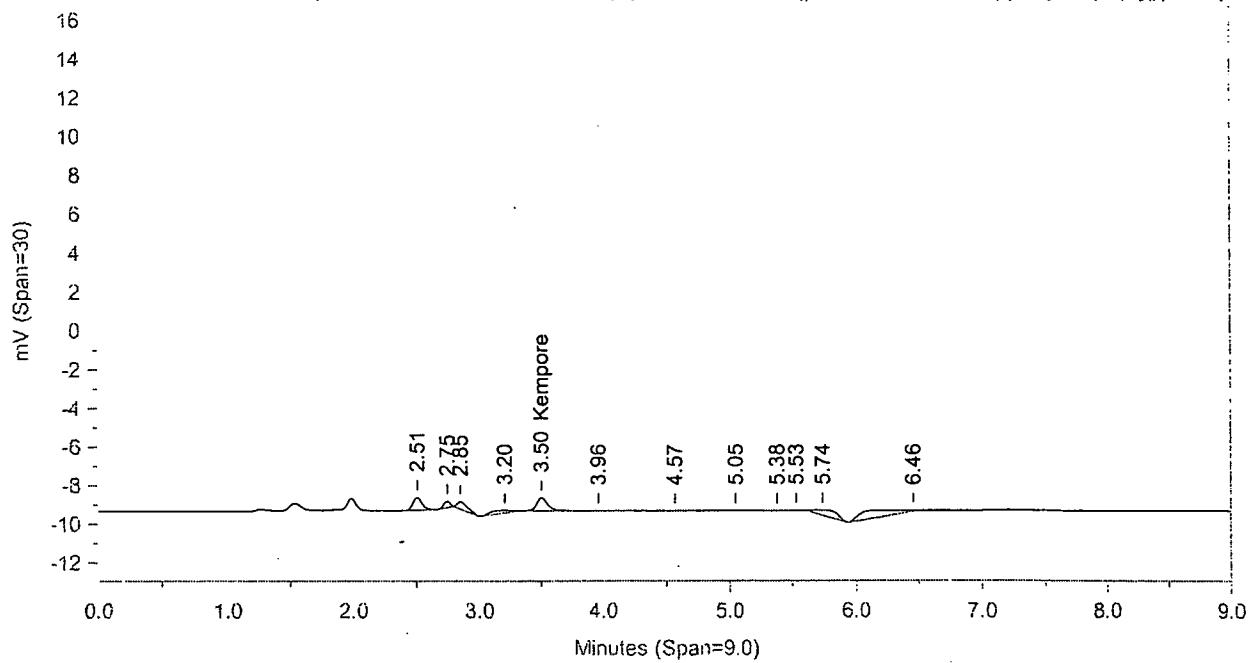
Threshold: -4	Area	Width: 0.1	Area Reject: 0
Calib. Type: External		Quantitation: HEIGHT	

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.5	678	3440	.081		
2.749	239	819	.074		
2.852	405	2063	.117		
3.186	124	1596	.232		
3.503	3156	19658	.094	1389.706	Kempore
4.1	10	40	.119		
4.292	17	154	.217		
4.549	13	227	.477		
5.166	14	69	.069		
5.407	13	55	.069		
5.522	9	28	.071		
5.711	218	3815	.303		
6.168	187	3362	.285		
6.37	9	55	.144		

FILES:

Area file: C:\CPWIN\DATA1\1K11319.09A
 Method file: C:\CPWIN\DATA1\KEMP.MET
 Calibration File: C:\CPWIN\DATA1\1K11319.CAL
 Format File: C:\CPWIN\DATA1\FORM.FMT
 Area file created on: 11/14/2012 9:10:52 PM
 File reported on: 11/14/2012 at 9:10:54 PM

Kempore in water



Sample Name:MDKRX1224C AAMDKRXAA ICAL 1231899999A

Instrument ID:CP09--K3593A

Volume Inj. per column: 1

Sample Amount: 1

Heading 2 = 100% Phosphate buffer

Raw File: C:\CPWIN\DATA1\IK11319.10R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4	Area	Width: 0.1	Area Reject: 0
Calib. Type: External		Quantitation: HEIGHT	

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.506	678	3558	.081		
2.75	324	1171	.069		
2.852	392	2041	.119		
3.204	129	1824	.248		
3.502	681	4362	.095	198.331	Kempore
3.961	9	73	.268		
4.565	6	38	.175		
5.051	2	6	.104		
5.38	7	40	.124		
5.532	6	22	.075		
5.743	270	3701	.263		
6.457	53	7829	.493		

FILES:

Area file: C:\CPWIN\DATA1\IK11319.10A

Method file: C:\CPWIN\DATA1\KEMP.MET

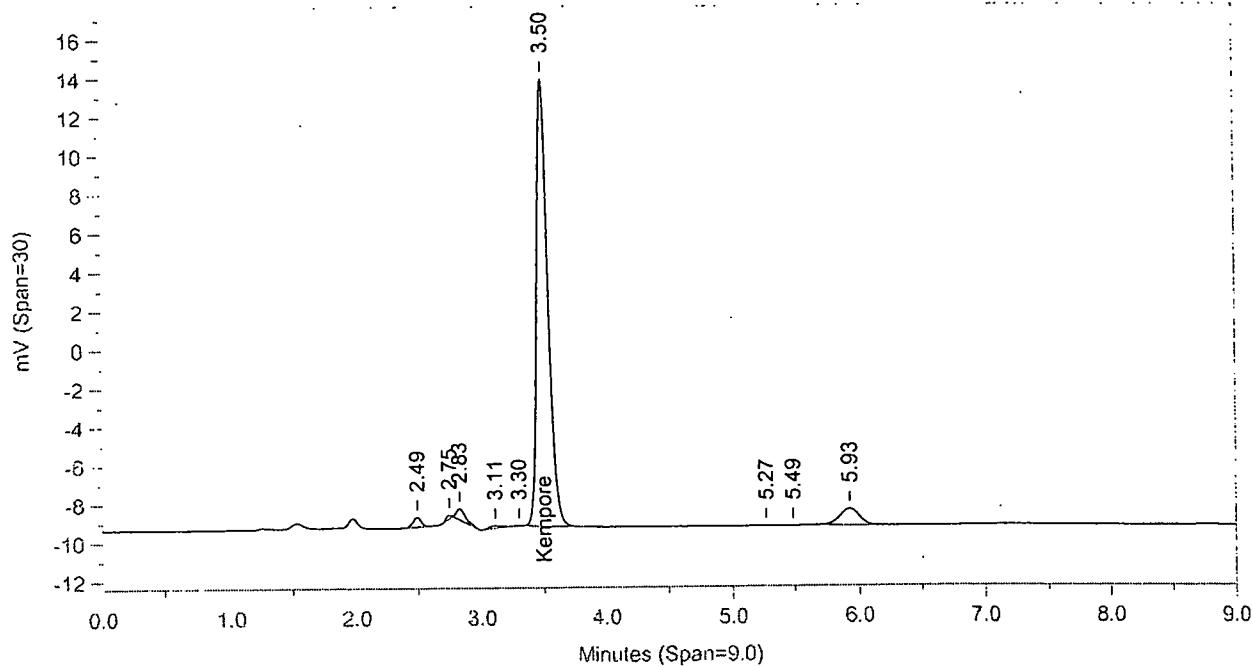
Calibration File: C:\CPWIN\DATA1\IK11319.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/14/2012 9:24:28 PM

File reported on: 11/14/2012 at 9:24:30 PM

Kempore in water



Sample Name: KEMP31224C EYKEMP3EY CCAL 1231899999A

Instrument ID: CP09-K3593A

Volume Inj. per column: 1

Sample Amount: 1

Heading 2 = 100% Phosphate buffer

Raw File: C:\CPWIN\DATA1\1K11319.21R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4	Area	Width: 0.1	Area Reject: 0
Calib. Type: External		Quantitation: HEIGHT	

Ret Time (min)	Peak ~Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.493	508	2373	.079		
2.748	208	647	.059		
2.831	576	2789	.109		
3.111	133	950	.167		
3.303	19	88	.077		
3.497	23131	142008	.094	6732.257	Kempore
5.275	5	29	.162		
5.489	5	15	.057		
5.93	848	9155	.163		

FILES:

Area file: C:\CPWIN\DATA1\1K11319.21A

Method file: C:\CPWIN\DATA1\KEMP.MET

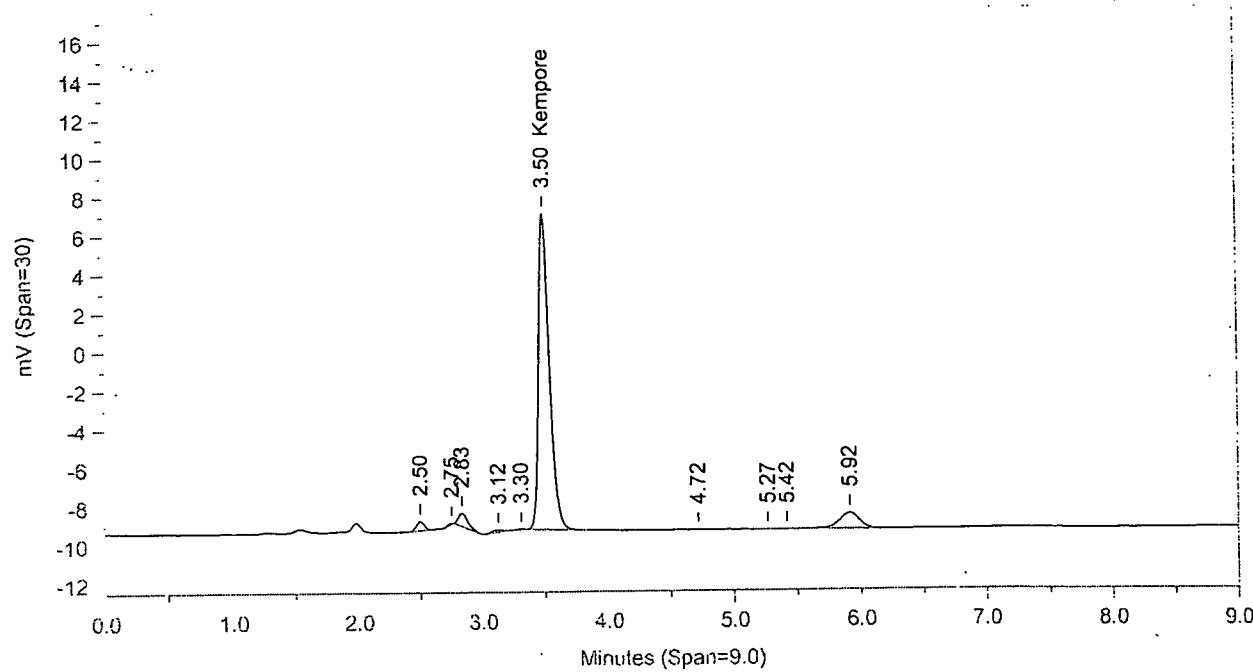
Calibration File: C:\CPWIN\DATA1\1K11319.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/14/2012 11:18:22 PM

File reported on: 11/14/2012 at 11:18:23 PM

Kempore in water



Sample Name: KEMP31224C EZKEMP3EZ CCAL 1231899999A

Instrument ID: CP09-K3593A

Injected on: 11/15/2012 1:06:45 AM

Volume Inj. per column: 1

HPLC Column ID: Capcell CN, 250mmX4.6mmX5um

Sample Amount: 1

Dilution Factor: 1

Heading 2 = 100% Phosphate buffer

Raw File: C:\CPWIN\DATA1\1K11319.32R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4 Area Width: 0.1 Area Reject: 0

Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.499	485	2284	.082		
2.752	57	249	.049		
2.835	685	3620	.122		
3.125	108	783	.144		
3.304	39	177	.09		
3.498	16306	100372	.094	4745.801	Kempore
4.718	9	56	.116		
5.265	9	40	.114		
5.415	6	43	.176		
5.918	817	8811	.166		

FILES:

Area file: C:\CPWIN\DATA1\1K11319.32A

Method file: C:\CPWIN\DATA1\KEMP.MET

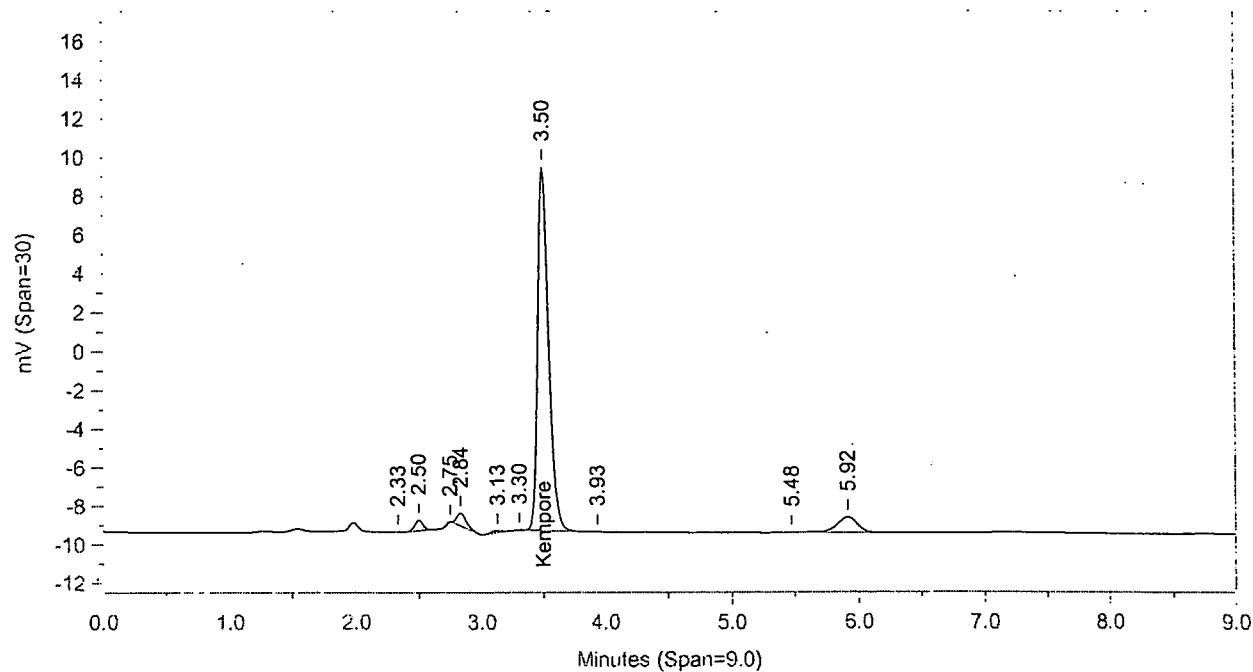
Calibration File: C:\CPWIN\DATA1\1K11319.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/15/2012 1:15:52 AM

File reported on: 11/15/2012 at 1:15:54 AM

Kempore in water



Sample Name: KEMP31224C FAKEMP3FA CCAL 1231899999A

Instrument ID: CP09-K3593A Injected on: 11/15/2012 1:49:15 AM
 Volume Inj. per column: 1 HPLC Column ID: Capcell CN, 250mmX4.6mmX5um
 Sample Amount: 1 Dilution Factor: 1
 Heading 2 = 100% Phosphate buffer
 Raw File: C:\CPWIN\DATA1\IK11319.36R
 Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4	Area	Width: 0.1	Area Reject: 0
Calib. Type: External		Quantitation: HEIGHT	

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.333	8	16	.035		
2.5	552	2586	.079		
2.753	79	324	.048		
2.836	677	3296	.12		
3.126	100	706	.141		
3.302	37	163	.089		
3.499	18776	115502	.094	5464.941	Kempore
3.935	13	49	.11		
5.479	7	49	.115		
5.917	801	8939	.169		

FILES:

Area file: C:\CPWIN\DATA1\IK11319.36A
 Method file: C:\CPWIN\DATA1\KEMP.MET
 Calibration File: C:\CPWIN\DATA1\IK11319.CAL
 Format File: C:\CPWIN\DATA1\FORM.FMT
 Area file created on: 11/15/2012 1:58:22 AM
 File reported on: 11/15/2012 at 1:58:24 AM

Lancaster Laboratories

CHROM PERFECT SEQUENCE FILE

Sequence File: \\cp9\C-Drive\CPWIN\DATA1\1k11321.seq

Chromatography Directory: \\cp9\C-Drive\CPWIN\data1

Method Directory: \\cp9\C-Drive\CPWIN\data1

Number of Entries: 35

<u>Samplename</u>	<u>VP</u>	<u>Code</u>	<u>ID</u>	<u>FileName</u>	<u>Method</u>	<u>Samp Amt</u>	<u>DF</u>	<u>Int Std</u>	<u>C</u>	<u>Batch Number</u>	<u>Analysis</u>
1 CONDITIONER		MISC	AA	1k11321.01R	KEMPB.MET	1	1	1	0	1231899999	
2 CONDITIONER		MISC	AA	1k11321.02R	KEMPB.MET	1	1	1	0	1231899999	
3 CONDITIONER		MISC	AA	1k11321.03R	KEMPB.MET	1	1	1	0	1231899999	
4 KEMP51224C		ICAL	AA	1k11321.04R	KEMPB.MET	1	1	1	5	1231899999	
5 KEMP41224C		ICAL	AA	1k11321.05R	KEMPB.MET	1	1	1	4	1231899999	
6 KEMP31224C		ICAL	AA	1k11321.06R	KEMPB.MET	1	1	1	3	1231899999	
7 KEMP21224C		ICAL	AA	1k11321.07R	KEMPB.MET	1	1	1	2	1231899999	
8 KEMP11224C		ICAL	AA	1k11321.08R	KEMPB.MET	1	1	1	1	1231899999	
9 MDKRX1224C		ICAL	AA	1k11321.09R	KEMPB.MET	1	1	1	0	1231899999	
10 BLANKA 11/14/12		BLK	AA	1k11321.10R	KEMPB.MET	10	10	1	0	123190031A	02727
11 LCSA 11/14/12		LCS	AA	1k11321.11R	KEMPB.MET	10	10	1	0	123190031A	02727
12 LCSDA 11/14/12		LCSD	AA	1k11321.12R	KEMPB.MET	10	10	1	0	123190031A	02727
13 BLANKA 11/14/12		BLK	AA	1k11321.13R	KEMPB.MET	10	10	1	0	123190032A	
14 MDL1 11/14/12		MDL	AA	1k11321.14R	KEMPB.MET	10	10	1	0	123190032A	
15 MDL2 11/14/12		MDL	AA	1k11321.15R	KEMPB.MET	10	10	1	0	123190032A	
16 MDL3 11/14/12		MDL	AA	1k11321.16R	KEMPB.MET	10	10	1	0	123190032A	
17 MDL4 11/14/12		MDL	AA	1k11321.17R	KEMPB.MET	10	10	1	0	123190032A	
18 MDL5 11/14/12		MDL	AA	1k11321.18R	KEMPB.MET	10	10	1	0	123190032A	
19 MDL6 11/14/12		MDL	AA	1k11321.19R	KEMPB.MET	10	10	1	0	123190032A	
20 KEMP31224C		CCAL	EY	1k11321.20R	KEMPB.MET	1	1	1	0	1231899999	
21 MDL7 11/14/12		MDL	AA	1k11321.21R	KEMPB.MET	10	10	1	0	123190032A	
22 6854278		T	AA	1k11321.22R	KEMPB.MET	10	10	1	0	123190031A	02727
23 6854279		T	AA	1k11321.23R	KEMPB.MET	10	10	1	0	123190031A	02727
24 6854280		T	AA	1k11321.24R	KEMPB.MET	10	10	1	0	123190031A	02727
25 6854281		T	AA	1k11321.25R	KEMPB.MET	10	10	1	0	123190031A	02727
26 6854282		T	AA	1k11321.26R	KEMPB.MET	10	10	1	0	123190031A	02727
27 6854283		T	AA	1k11321.27R	KEMPB.MET	10	10	1	0	123190031A	02727
28 6854284		T	AA	1k11321.28R	KEMPB.MET	10	10	1	0	123190031A	02727
29 6854285		T	AA	1k11321.29R	KEMPB.MET	10	10	1	0	123190031A	02727
30 6854286MS		MS	AA	1k11321.30R	KEMPB.MET	10	10	1	0	123190031A	02727
31 KEMP31224C		CCAL	EZ	1k11321.31R	KEMPB.MET	1	1	1	0	1231899999	
32 6854287MSD		MSD	AA	1k11321.32R	KEMPB.MET	10	10	1	0	123190031A	02727
33 6854289		T	AA	1k11321.33R	KEMPB.MET	10	10	1	0	123190031A	02727
34 6854322		T	AA	1k11321.34R	KEMPB.MET	10	10	1	0	123190031A	02727
35 KEMP31224C		CCAL	FA	1k11321.35R	KEMPB.MET	1	1	1	0	1231899999	

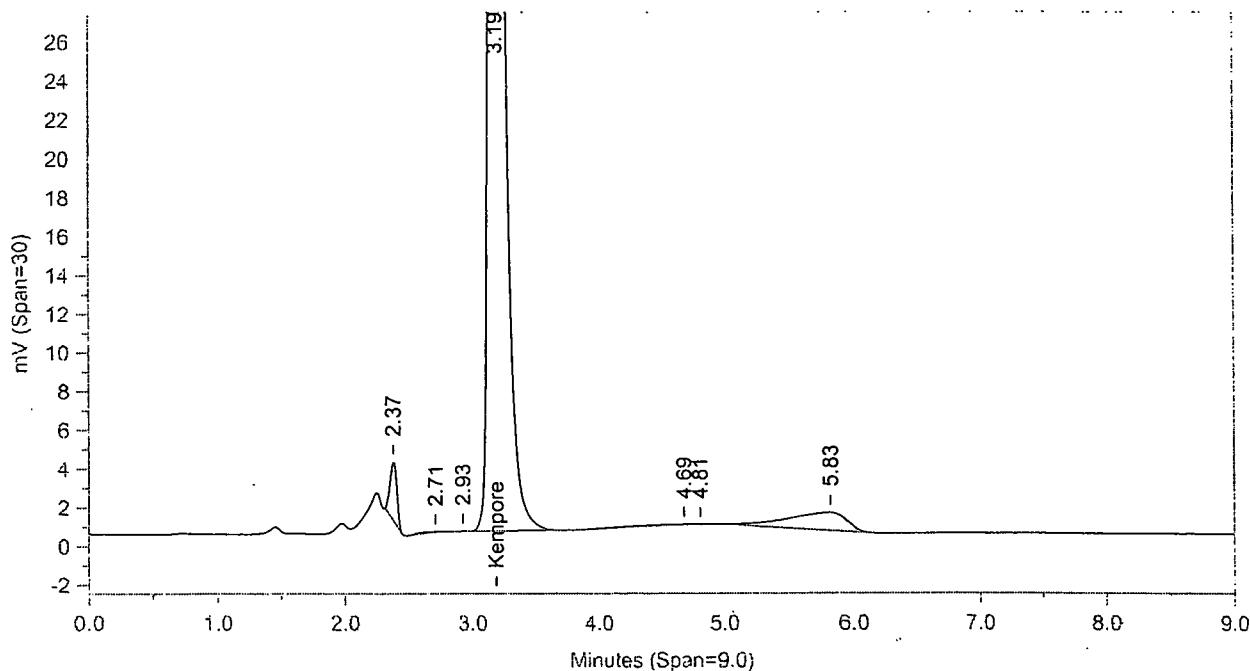
Set-up by:

11/16/2012

Date: 11/20/12

OLN 81 0049

Kempore in water



Sample Name: KEMP51224C AAKEMP5AA ICAL 1231899999A

Instrument ID: CP09-K3593A

Injected on: 11/16/2012 4:02:27 PM

Volume Inj. per column: 1

HPLC Column ID: Supelcosil LC PAH, 250mmX4.6mmX5um

Sample Amount: 1

Dilution Factor: 1

Heading 2 = 100% Phosphate buffer

Raw File: C:\CPWIN\DATA1\K11321.04R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4	Area	Width: 0.1	Area Reject: 0
Calib. Type: External		Quantitation: HEIGHT	

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.375	3027	10551	.073		
2.708	38	872	.203		
2.929	19	94	.11		
3.192	87199	628827	.108	25379.38	Kempore
4.687	28	2273	.588		
4.814	17	122	.123		
5.832	935	27624	.694		

FILES:

Area file: C:\CPWIN\DATA1\K11321.04A

Method file: C:\CPWIN\DATA1\KEMPB.MET

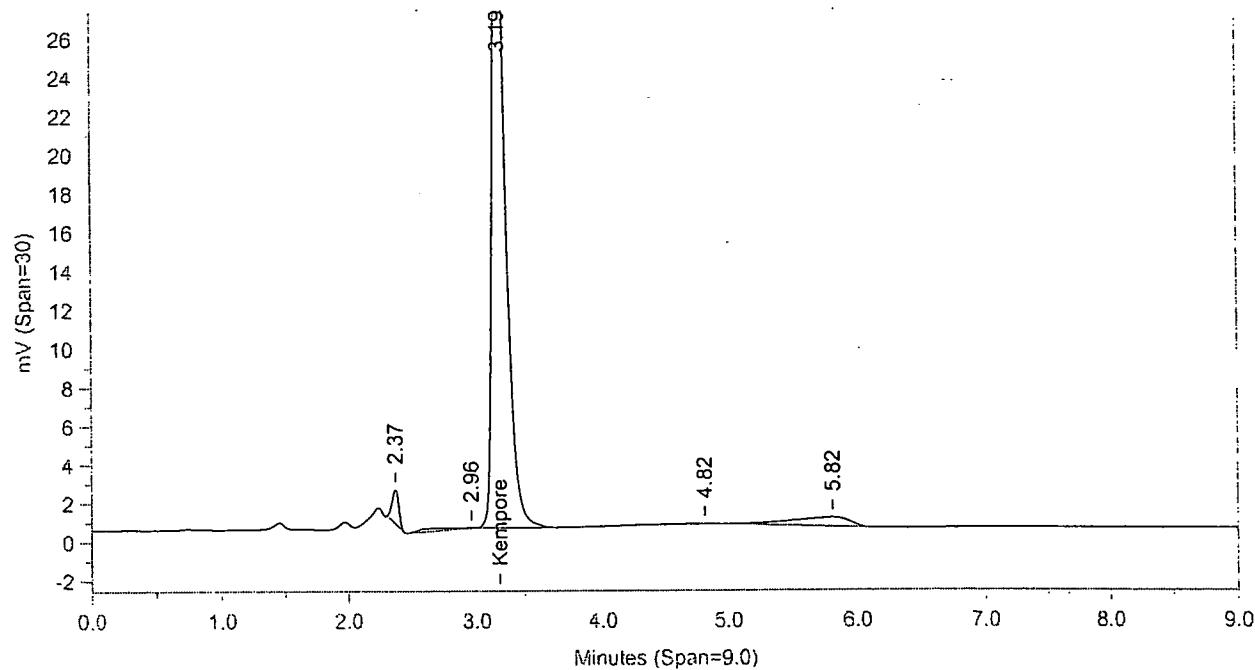
Calibration File: C:\CPWIN\DATA1\K11321.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/16/2012 4:11:34 PM

File reported on: 11/16/2012 at 4:11:36 PM

Kempore in water



Sample Name: KEMP41224C AAKEMP4AA ICAL 1231899999A

Instrument ID: CP09-K3593A

Injected on: 11/16/2012 4:13:04 PM

Volume Inj. per column: 1

HPLC Column ID: Supelcosil LC PAH, 250mmX4.6mmX5um

Sample Amount: 1

Dilution Factor: 1

Heading 2 = 100% Phosphate buffer

Raw File: C:\CPWIN\DATA1\1K11321.05R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4	Area	Width: 0.1	Area Reject: 0
Calib. Type: External		Quantitation: HEIGHT	

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.373	1782	6096	.073		
2.962	25	2748	.449		
3.19	35852	257887	.108	11677.25	Kempore
4.818	4	1452	.683		
5.817	469	14073	.699		

FILES:

Area file: C:\CPWIN\DATA1\1K11321.05A

Method file: C:\CPWIN\DATA1\KEMPB.MET

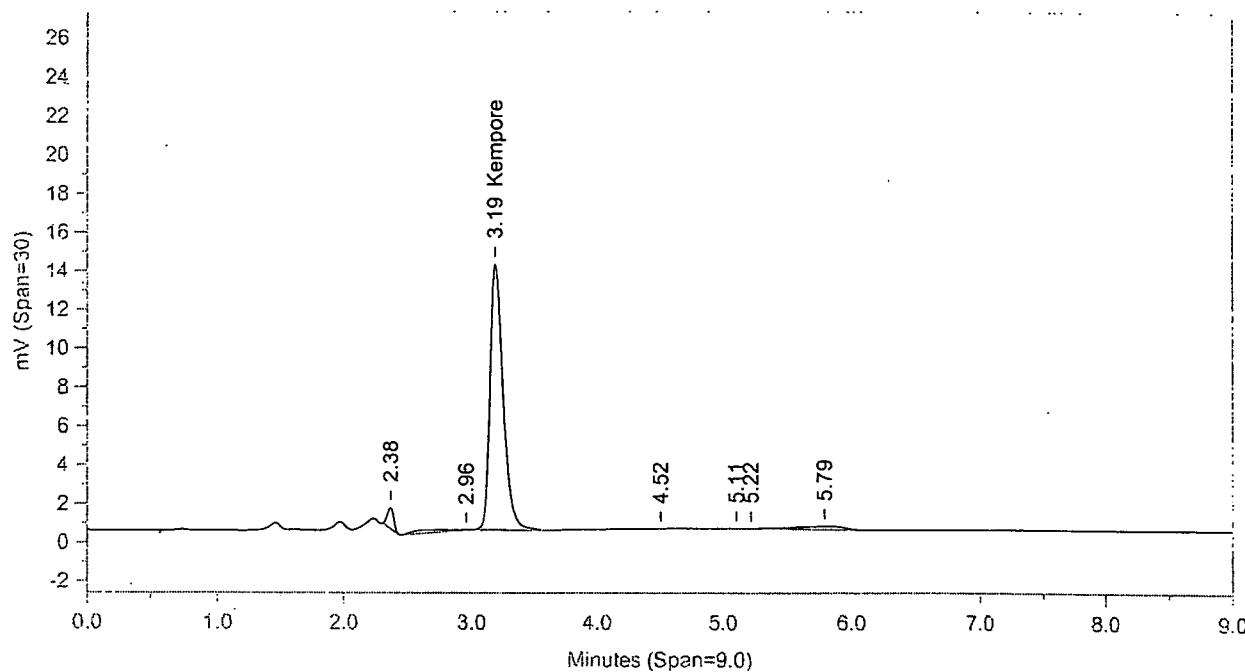
Calibration File: C:\CPWIN\DATA1\1K11321.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/16/2012 4:22:12 PM

File reported on: 11/16/2012 at 4:22:13 PM

Kempore in water



Sample Name: KEMP31224C AAKEMP3AA ICAL 1231899999A

Instrument ID: CP09-K3593A

Injected on: 11/16/2012 4:23:42 PM

Volume Inj. per column: 1

HPLC Column ID: Supelcosil LC PAH, 250mmX4.6mmX5um

Sample Amount: 1

Dilution Factor: 1

Heading 2 = 100% Phosphate buffer

Raw File: C:\CPWIN\DATA1\1K11321.06R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4	Area	Width: 0.1	Area Reject: 0
Calib. Type: External		Quantitation: HEIGHT	

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.376	1094	3789	.077		
2.961	12	2789	.441		
3.192	13779	99317	.108	5177.78	Kempore
4.515	7	865	.641		
5.107	3	28	.172		
5.219	5	21	.084		
5.795	167	4497	.63		

FILES:

Area file: C:\CPWIN\DATA1\1K11321.06A

Method file: C:\CPWIN\DATA1\KEMPB.MET

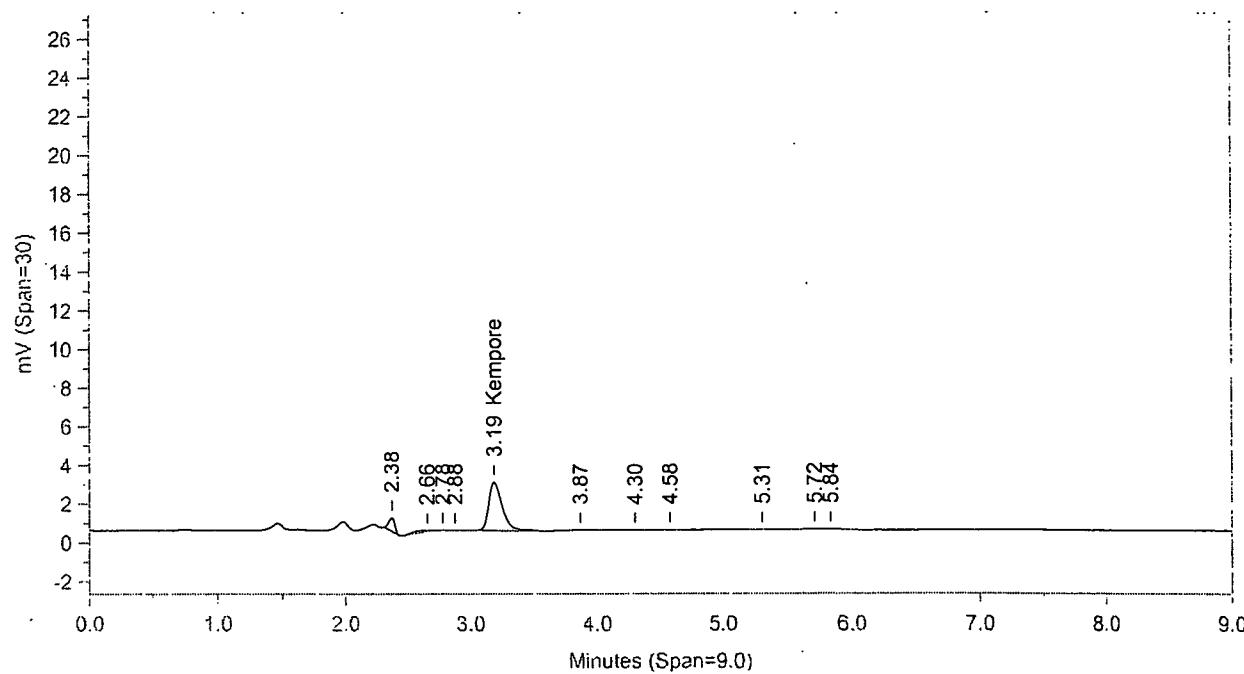
Calibration File: C:\CPWIN\DATA1\1K11321.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/16/2012 4:32:50 PM

File reported on: 11/16/2012 at 4:32:51 PM

Kempore in water



Sample Name: KEMP21224C AAKEMP2AA ICAL 1231899999A

Instrument ID: CP09-K3593A

Injected on: 11/16/2012 4:34:18 PM

Volume Inj. per column: 1

HPLC Column ID: Supelcosil LC PAH, 250mmX4.6mmX5um

Sample Amount: 1

Dilution Factor: 1

Heading 2 = 100% Phosphate buffer

Raw File: C:\CPWIN\DATA1\1K11321.07R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4	Area	Width: 0.1	Area Reject: 0
Calib. Type: External		Quantitation: HEIGHT	

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.375	700	2404	.082		
2.659	47	840	.165		
2.784	7	33	.076		
2.881	6	28	.11		
3.192	2508	18781	.11	1130.431	Kempore
3.868	8	313	.244		
4.303	7	124	.401		
4.581	8	49	.134		
5.306	14	65	.064		
5.717	9	68	.133		
5.841	22	209	.209		

FILES:

Area file: C:\CPWIN\DATA1\1K11321.07A

Method file: C:\CPWIN\DATA1\KEMPB.MET

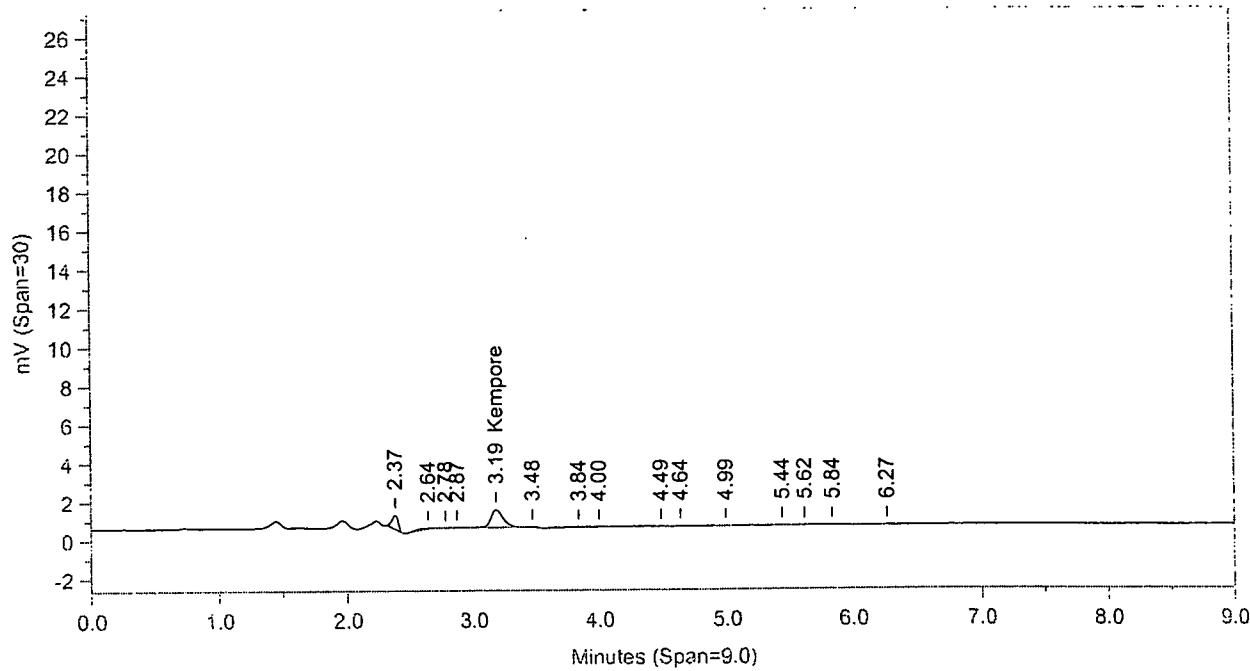
Calibration File: C:\CPWIN\DATA1\1K11321.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/16/2012 4:43:26 PM

File reported on: 11/16/2012 at 4:43:28 PM

Kempore in water



Sample Name: KEMP11224C AAKEMP1AA ICAL 1231899999A

Instrument ID: CP09--K3593A

Injected on: 11/16/2012 4:44:56 PM

Volume Inj. per column: 1

HPLC Column ID: Supelcosil LC PAH, 250mmX4.6mmX5um

Sample Amount: 1

Dilution Factor: 1

Heading 2 = 100% Phosphate buffer

Raw File: C:\CPWIN\DATA1\1K11321.08R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4 Area Width: 0.1 Area Reject: 0

Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.371	733	2434	.08		
2.636	63	792	.157		
2.776	7	33	.088		
2.871	9	56	.108		
3.188	916	6244	.104	519.8071	Kempore
3.481	43	183	.109		
3.84	26	490	.305		
3.999	11	42	.066		
4.485	6	18	.051		
4.637	8	30	.105		
4.995	4	18	.094		
5.443	11	75	.137		
5.624	9	61	.173		
5.842	15	167	.241		
6.267	19	92	.075		

FILES:

Area file: C:\CPWIN\DATA1\1K11321.08A

Method file: C:\CPWIN\DATA1\KEMPB.MET

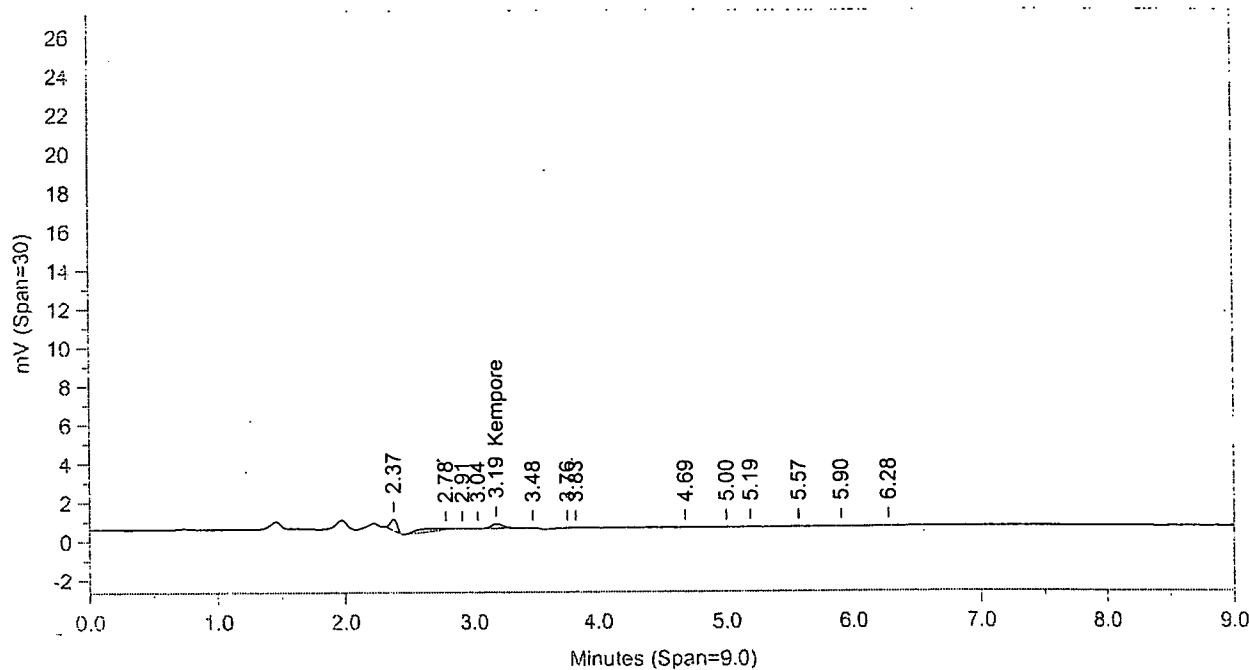
Calibration File: C:\CPWIN\DATA1\1K11321.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/16/2012 4:54:04 PM

File reported on: 11/16/2012 at 4:54:05 PM

Kempore in water



Sample Name:MDKRX1224C AAMDKRXAA ICAL 1231899999A

Instrument ID:CP09--K3593A

Volume Inj. per column: 1

Sample Amount: 1

Heading 2 = 100% Phosphate buffer

Raw File: C:\CPWIN\DATA1\IK11321.09R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4 Area Width: 0.1 Area Reject: 0

Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.372	587	1941	.09		
2.776	64	2322	.331		
2.91	8	32	.079		
3.036	6	15	.051		
3.186	227	1521	.107	1800.799	Kempore
3.482	32	132	.104		
3.757	13	160	.14		
3.827	12	153	.271		
4.686	9	38	.096		
5.003	9	95	.297		
5.189	12	110	.245		
5.569	5	42	.151		
5.905	5	23	.075		
6.278	5	38	.169		

FILES:

Area file: C:\CPWIN\DATA1\IK11321.09A

Method file: C:\CPWIN\DATA1\KEMPB.MET

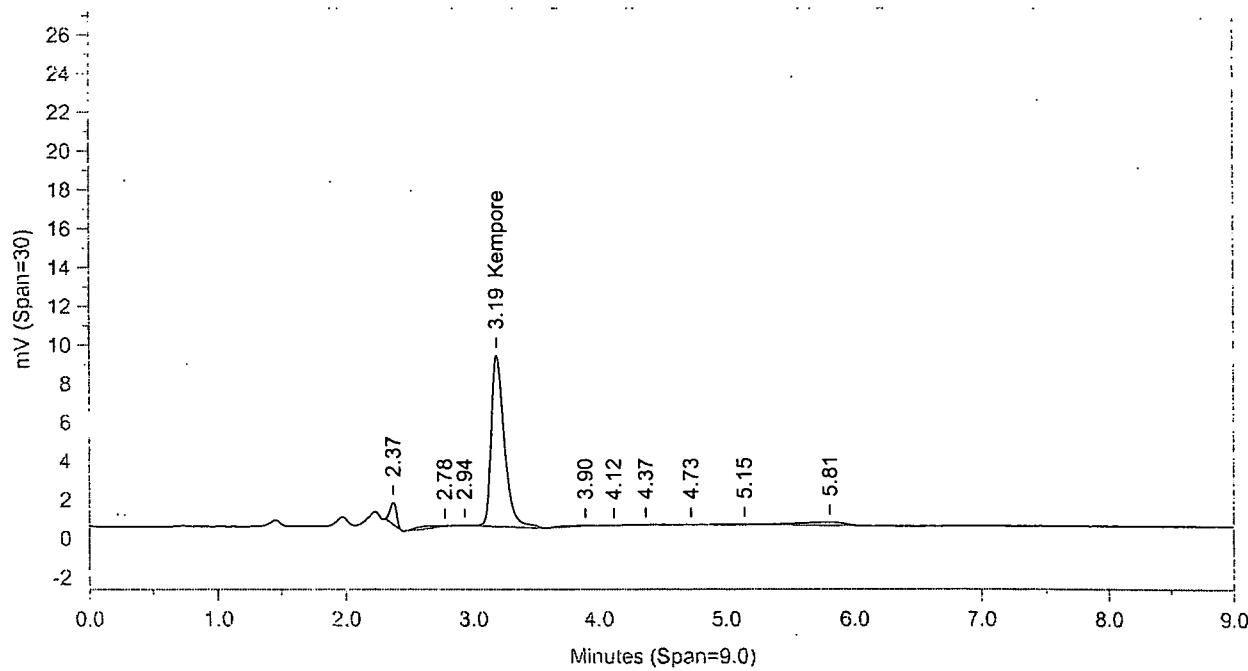
Calibration File: C:\CPWIN\DATA1\IK11321.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/16/2012 5:04:40 PM

File reported on: 11/16/2012 at 5:04:42 PM

Kempore in water



Sample Name: KEMP31224C EYKEMP3EY CCAL 1231899999A

Instrument ID: CP09--K3593A

Injected on: 11/16/2012 6:52:22 PM

Volume Inj. per column: 1

HPLC Column ID: Supelcosil LC PAH, 250mmX4.6mmX5um

Sample Amount: 1

Dilution Factor: 1

Heading 2 = 100% Phosphate buffer

Raw File: C:\CPWIN\DATA1\IK11321.20R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4	Area	Width: 0.1	Area Reject: 0
Calib. Type: External		Quantitation: HEIGHT	

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.373	1151	3887	.074		
2.777	44	1725	.287		
2.935	19	113	.138		
3.189	8884	65395	.109	6689.273	Kempore
3.898	40	1136	.345		
4.12	7	37	.112		
4.374	16	121	.175		
4.728	5	26	.156		
5.145	9	21	.062		
5.813	172	4511	.614		

FILES:

Area file: C:\CPWIN\DATA1\IK11321.20A

Method file: C:\CPWIN\DATA1\KEMPB.MET

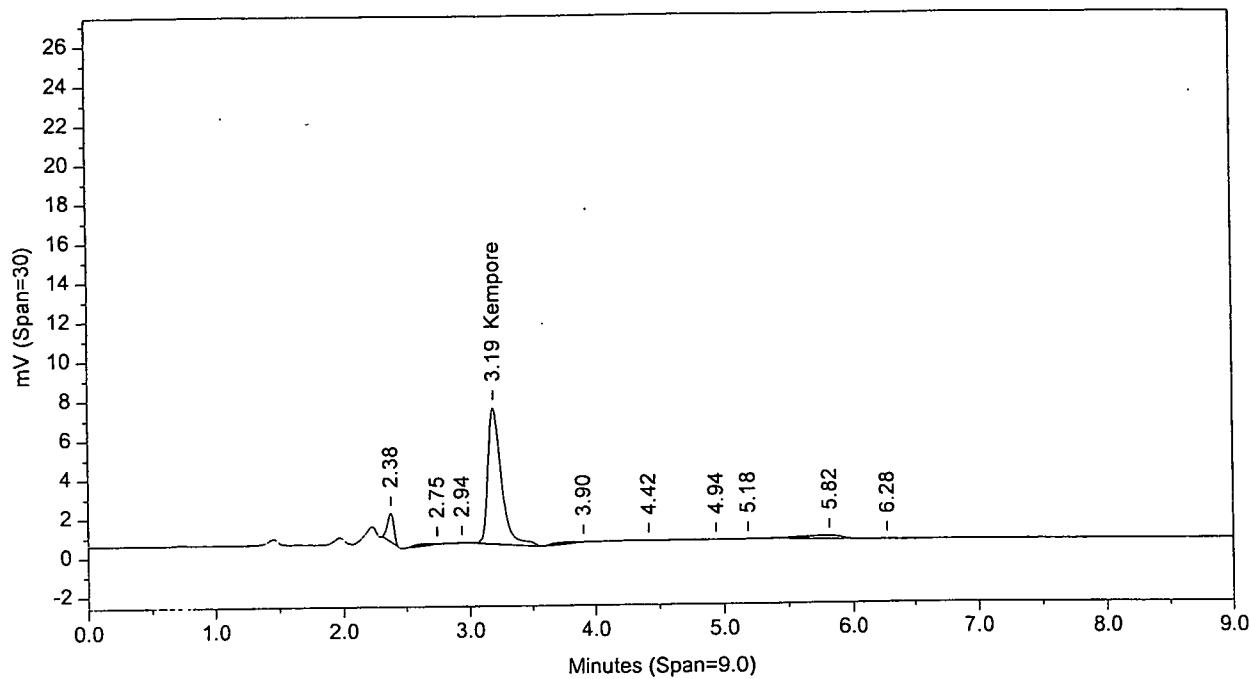
Calibration File: C:\CPWIN\DATA1\IK11321.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/16/2012 7:01:30 PM

File reported on: 11/16/2012 at 7:01:31 PM

Kempore in water



Sample Name: KEMP31224C EZKEMP3EZ CCAL 1231899999A

Instrument ID: CP09--K3593A

Injected on: 11/16/2012 8:49:49 PM

Volume Inj. per column: 1

HPLC Column ID: Supelcosil LC PAH, 250mmX4.6mmX5um

Sample Amount: 1

Dilution Factor: 1

Heading 2 = 100% Phosphate buffer

Raw File: C:\CPWIN\DATA1\K11321.31R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4 Area Width: 0.1 Area Reject: 0

Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.377	1511	5123	.069		
2.746	39	1253	.247		
2.939	26	160	.107		
3.19	6961	52389	.111	5603.219	Kempore
3.903	33	1418	.306		
4.418	7	220	.345		
4.94	7	16	.077		
5.182	8	29	.081		
5.822	168	4206	.617		
6.28	12	80	.134		

FILES:

Area file: C:\CPWIN\DATA1\K11321.31A

Method file: C:\CPWIN\DATA1\KEMPB.MET

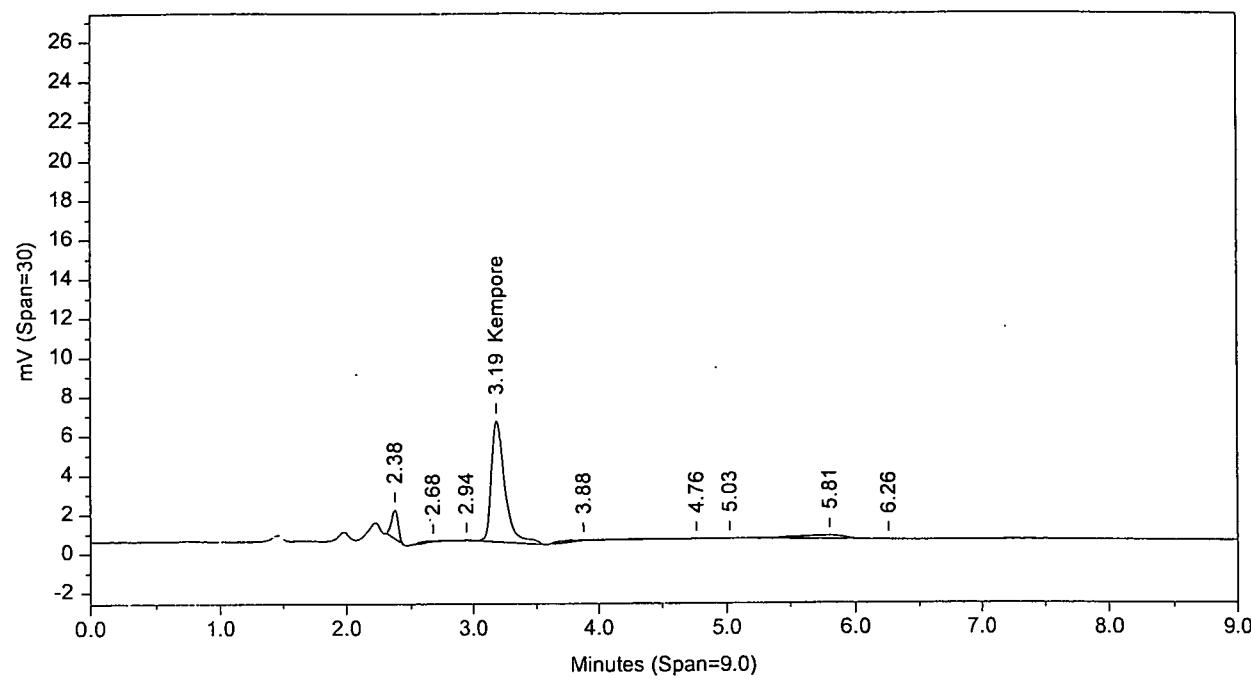
Calibration File: C:\CPWIN\DATA1\K11321.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/20/2012 1:58:04 PM

File reported on: 11/20/2012 at 1:58:06 PM

Kempore in water



Sample Name: KEMP31224C FAKEMP3FA CCAL 1231899999A

Instrument ID: CP09--K3593A

Injected on: 11/16/2012 9:32:18 PM

Volume Inj. per column: 1

HPLC Column ID: Supelcosil LC PAH, 250mmX4.6mmX5um

Sample Amount: 1

Dilution Factor: 1

Heading 2 = 100% Phosphate buffer

Raw File: C:\CPWIN\DATA1\K11321.35R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4 Area Width: 0.1 Area Reject: 0

Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.378	1523	5176	.069		
2.677	50	738	.175		
2.945	30	214	.117		
3.19	6162	46884	.111	5152.023	Kempore
3.883	35	1360	.28		
4.764	13	794	.787		
5.025	8	30	.098		
5.808	182	5015	.609		
6.258	18	176	.184		

FILES:

Area file: C:\CPWIN\DATA1\K11321.35A

Method file: C:\CPWIN\DATA1\KEMPB.MET

Calibration File: C:\CPWIN\DATA1\K11321.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/20/2012 1:58:56 PM

File reported on: 11/20/2012 at 1:58:58 PM

Raw QC Data

OLN61 0059

Lancaster Laboratories-Single Component Data Summary

Sample Name: BLANKA 11/14/12

PBLK31319

Sample Amount: 10 ml

Total Volume: 10 ml

Analyses: 02727 10342

Batchnumber: 123190031A

SDG:

State:

Analysis Report (A)

Injected on : NOV 14, 2012 21:32:00
Instrument : CP09-K3593A
Result file : 1K11319.11R
Calibration file : 1K11319.CAL
Method file : KEMP.MET

Analysis Report (B)

Injected on : NOV 14, 2012 21:32:00
Instrument :
Result file :
Calibration file :
Method file :

Peak name	Min	R.T.	Max	Height	Amount
Kempore	3.00	3.60	4.00	134	38.952637

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
<input checked="" type="checkbox"/> Kempore	_____	_____	<1000	<230	_____	_____	_____

Units: ug/l

Reviewed by: _____

James H. Place
Senior Chemist

Date: NOV 15 2012

Verified by: _____

Date: NOV 28 2012

%RPD = High - Low Amount divided by the Average times 100

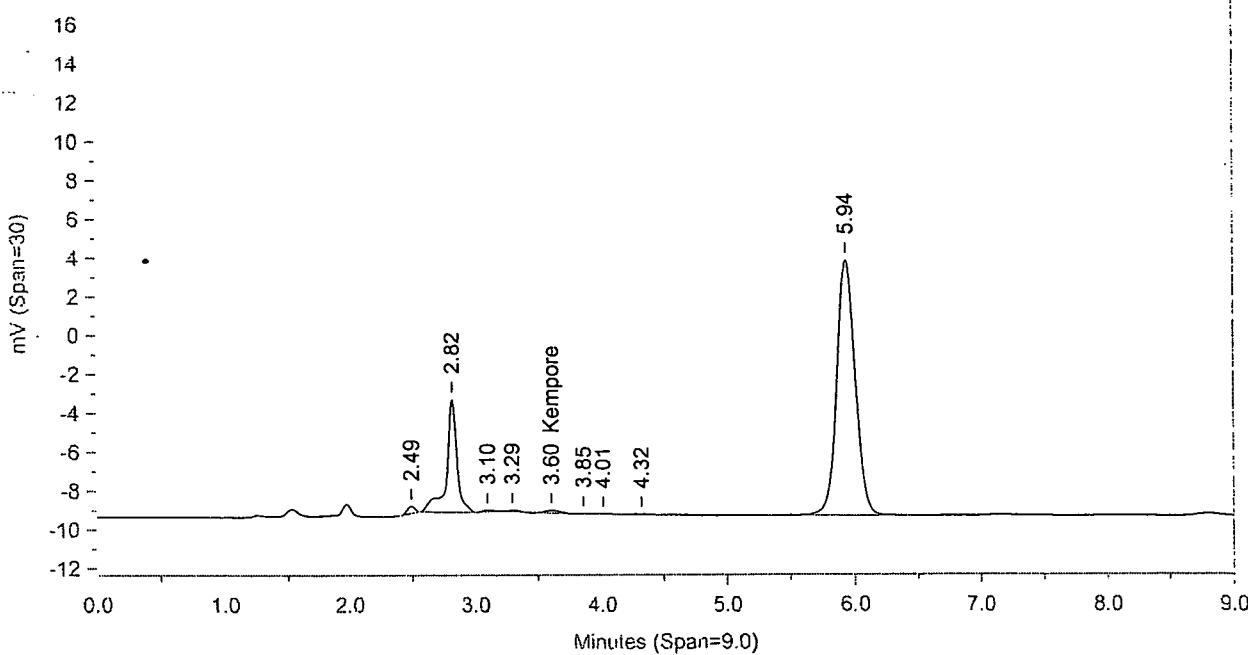
Higher Amount Found

* Recovery outside QC Limits

Printed on: 11/15/2012 14:22:17

OLN61 0060

Kempore in water



Sample Name:BLANKA 11/14/12 AAPBLK31319 BLK 123190031A 02727A

Instrument ID:CP09-K3593A

Injected on: 11/14/2012 9:23:00 PM

Volume Inj. per column: 1

HPLC Column ID: Capcell CN, 250mmX4.6mmX5um

Sample Amount: 10

Dilution Factor: 10

Heading 2 = 100% Phosphate buffer

Raw File: C:\CPWIN\DATA1\1K11319.11R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4 Area Width: 0.1 Area Reject: 0

Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.491	380	1609	.084	.	
2.816	5816	34721	.07	.	
3.097	99	637	.16	.	
3.293	83	518	.141	.	
3.601	134	1058	.148	38.9526	Kempore
3.851	12	67	.105	.	
4.007	18	147	.144	.	
4.322	50	765	.406	.	
5.938	13168	130679	.151	.	

FILES:

Area file: C:\CPWIN\DATA1\1K11319.11A

Method file: C:\CPWIN\DATA1\KEMP.MET

Calibration File: C:\CPWIN\DATA1\1K11319.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/14/2012 9:32:08 PM

File reported on: 11/14/2012 at 9:32:09 PM

Lancaster Laboratories-Single Component Data Summary

Sample Name: BLANKA 11/14/12

PBLK31319 Sample ID: AA

Batchnumber: 123190031A

Sample Amount: 10 ml

Total Volume: 10 ml

Analyst: 1566

SDG:

State:

Analyses: 02727 10342

Analysis Report (A)

Injected on : NOV 16, 2012 17:15:10
 Instrument : CP09-K3593A
 Result file : 1K11321.10R
 Calibration file : 1K11321.CAL
 Method file : KEMPB.MET

Analysis Report (B)

Injected on : NOV 16, 2012 17:15:10
 Instrument :
 Result file :
 Calibration file :
 Method file :

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
<input checked="" type="checkbox"/> Kempore			<1000	<230			
Units: ug/l							
Reviewed by: 	James H. Place Senior Chemist						
Date: <u>NOV 20 2012</u>							
Verified by: 	Valerie L. Temmeh Supervising Chemist						
Date: <u>NOV 28 2012</u>							

%RPD = High - Low Amount divided by the Average times 100

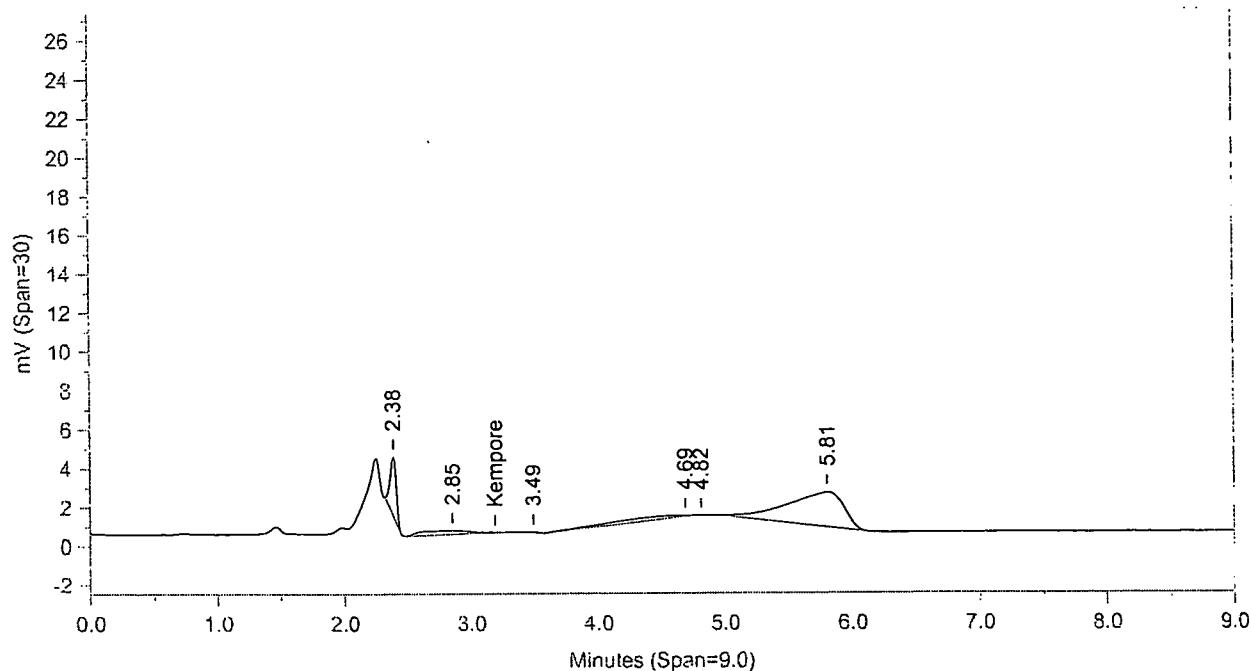
Higher Amount Found

* Recovery outside QC Limits

Printed on: 11/20/2012 18:16:02

OLN81 0062

Kempore in water



Sample Name:BLANKA 11/14/12 AAPBLK31319 BLK 123190031A 02727A

Instrument ID:CP09--K3593A

Injected on: 11/16/2012 5:06:10 PM

Volume Inj. per column: 1

HPLC Column ID: Supelcosil LC PAH, 250mmX4.6mmX5um

Sample Amount: 10

Dilution Factor: 10

Heading 2 = 100% Phosphate buffer

Raw File: C:\CPWIN\DATA1\1K11321.10R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4 Area Width: 0.1 Area Reject: 0

Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.381	3043	9369	.078	.	
2.852	199	5740	.67	.	
3.487	65	659	.311	.	
4.693	43	7090	.707	.	
4.816	12	106	.205	.	
5.811	1797	53548	.683	.	

FILES:

Area file: C:\CPWIN\DATA1\1K11321.10A

Method file: C:\CPWIN\DATA1\KEMPB.MET

Calibration File: C:\CPWIN\DATA1\1K11321.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/16/2012 5:22:24 PM

File reported on: 11/16/2012 at 5:22:26 PM

Lancaster Laboratories-Single Component Data Summary

Sample Name: LCSA 11/14/12 **Batchnumber:** 123190031A
Sample Amount: 10 ml **Sample ID:** AA **Total Volume:** 10 ml **Analyst:** 1566
Analyses: 02727 10342 **SDG:** **State:**

Analysis Report (A)

Injected on : NOV 14, 2012 21:42:37
Instrument : CP09-K3593A
Result file : 1K11319.12R
Calibration file : 1K11319.CAL
Method file : KEMP.MET
%SSR(Kempore) :

Peak name	Min	R.T.	Max	Height	Amount
Kempore	3.00	3.50	4.00	30575	8898.949219

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
<input checked="" type="checkbox"/> Kempore	—	—	<1000	<230	—	—	—

Units: ug/l

Reviewed by: James H. Place
Senior Chemist

Date: NOV 15 2012

Analysis Report (B)

Injected on : NOV 14, 2012 21:42:37
Instrument :
Result file :
Calibration file :
Method file :

Verified by: Vincent J. Tamburro
Analytical Specialist

Date: NOV 28 2012

%RPD = High - Low Amount divided by the Average times 100

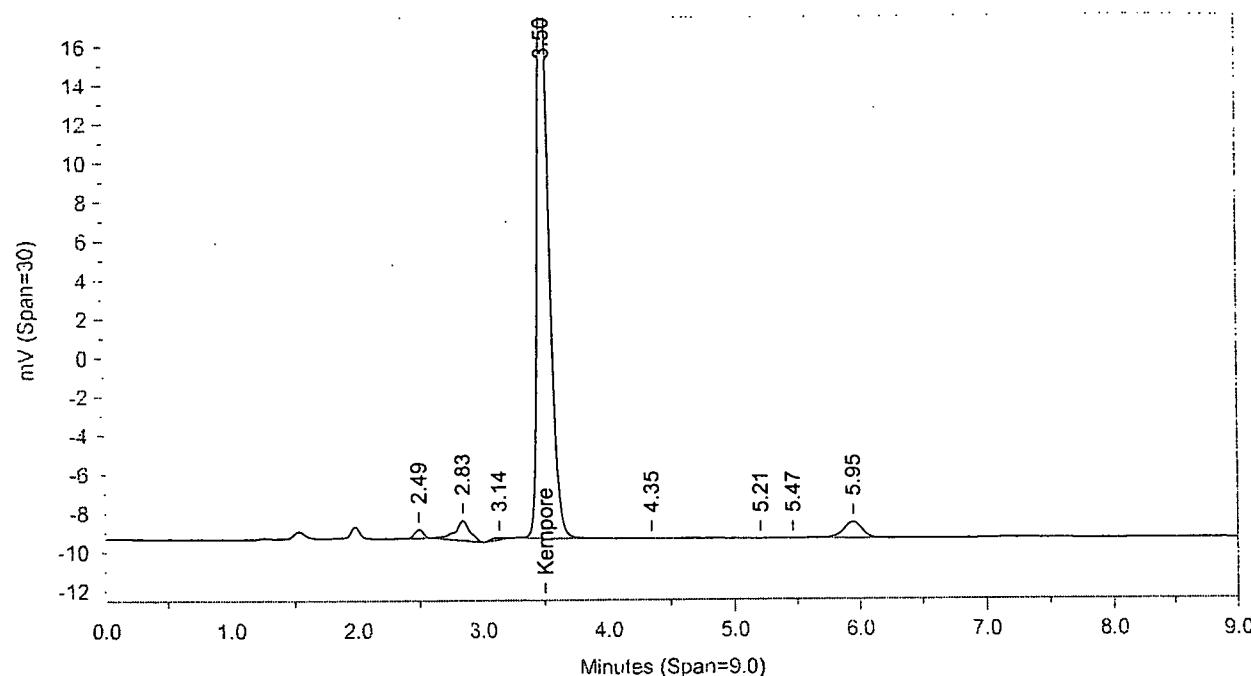
Higher Amount Found

* Recovery outside QC Limits

Printed on: 11/15/2012 14:22:31

OLN61 0064

Kempore in water



Sample Name: LCSA 11/14/12 AALCS31319 LCS 123190031A 02727A

Instrument ID: CP09--K3593A

Injected on: 11/14/2012 9:33:37 PM

Volume Inj. per column: 1

HPLC Column ID: Capcell CN, 250mmX4.6mmX5um

Sample Amount: 10

Dilution Factor: 10

Heading 2 = 100% Phosphate buffer

Raw File: C:\CPWIN\DATA1\K11319.12R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4 Area Width: 0.1 Area Reject: 0

Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.492	459	2115	.076	.	
2.835	1016	8550	.113	.	
3.136	113	951	.168	.	
3.501	30575	188004	.093	8898.949	Kempore
4.348	6	57	.175	.	
5.21	8	109	.342	.	
5.466	7	20	.083	.	
5.945	838	9080	.163	.	

FILES:

Area file: C:\CPWIN\DATA1\K11319.12A

Method file: C:\CPWIN\DATA1\KEMP.MET

Calibration File: C:\CPWIN\DATA1\K11319.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/14/2012 9:42:46 PM

File reported on: 11/14/2012 at 9:42:47 PM

Lancaster Laboratories-Single Component Data Summary

Sample Name: LCSA 11/14/12 LCS31319 Sample ID: AA Batchnumber: 123190031A
Sample Amount: 10 ml Total Volume: 10 ml Analyst: 1566 SDG: State:
Analyses: 02727 10342

Analysis Report (A)

Injected on : NOV 16, 2012 17:25:47
Instrument : CP09--K3593A
Result file : 1K11321.11R
Calibration file : 1K11321.CAL
Method file : KEMPB.MET
%SSR(Kempore) :

Peak name	Min	R.T.	Max	Height	Amount
Kempore	3.04	3.19	3.34	12081	8494.772461

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
<input checked="" type="checkbox"/> Kempore			<1000	<230			

Units: ug/l

Reviewed by: _____


James H. Place
Senior Chemist

Date: NOV 20 2012

Analysis Report (B)

Injected on : NOV 16, 2012 17:25:47
Instrument :
Result file :
Calibration file :
Method file :

Verified by: _____


Valerie I. Tamayo
Editorial Specialist

Date: NOV 28 2012

%RPD = High - Low Amount divided by the Average times 100

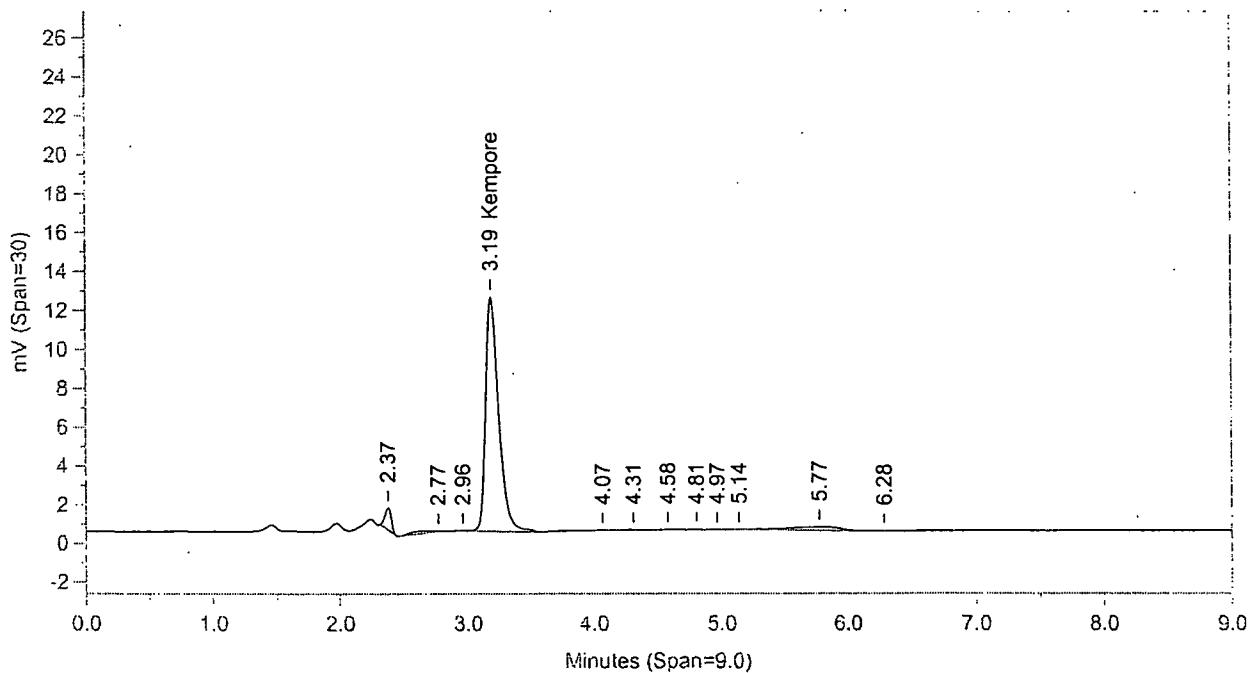
Higher Amount Found

* Recovery outside QC Limits

Printed on: 11/20/2012 18:16:09

OLN81 0066

Kempore in water



Sample Name:LCSA 11/14/12 AALCS31319 LCS 123190031A 02727A

Instrument ID:CP09-K3593A

Injected on: 11/16/2012 5:16:47 PM

Volume Inj. per column: 1

HPLC Column ID: Supelcosil LC PAH, 250mmX4.6mmX5um

Sample Amount: 10

Dilution Factor: 10

Heading 2 = 100% Phosphate buffer

Raw File: C:\CPWIN\DATA1\K11321.11R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4 Area Width: 0.1 Area Reject: 0

Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.375	1146	3925	.076	.	
2.769	22	1449	.248	.	
2.963	13	150	.207	.	
3.191	12081	86274	.107	8494.773	Kempore
4.069	14	732	.433	.	
4.308	9	93	.174	.	
4.582	6	11	.039	.	
4.805	15	59	.069	.	
4.968	7	28	.082	.	
5.136	8	24	.094	.	
5.771	177	4800	.658	.	
6.284	10	47	.094	.	

FILES:

Area file: C:\CPWIN\DATA1\K11321.11A

Method file: C:\CPWIN\DATA1\KEMPB.MET

Calibration File: C:\CPWIN\DATA1\K11321.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/16/2012 5:25:56 PM

File reported on: 11/16/2012 at 5:25:57 PM

Lancaster Laboratories-Single Component Data Summary

Sample Name: LCSDA 11/14/12 LCSD31319 Sample ID: AA Batchnumber: 123190031A
 Sample Amount: 10 ml Total Volume: 10 ml Analyst: 1566 SDG: State:
 Analyses: 02727 10342.

Analysis Report (A)

Injected on : NOV 14, 2012 21:53:14
 Instrument : CP09-K3593A
 Result file : 1K11319.13R
 Calibration file : 1K11319.CAL
 Method file : KEMP.MET
 %SSR(Kempore) :

Peak name	Min	R.T.	Max	Height	Amount
Kempore	3.00	3.50	4.00	27182	7911.510742

Analysis Report (B)

Injected on : NOV 14, 2012 21:53:14
 Instrument :
 Result file :
 Calibration file :
 Method file :

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
<input checked="" type="checkbox"/> Kempore			<1000	<230			

Units: ug/l

Reviewed by: _____

Date: NOV 15 2012

Verified by: _____

Date: NOV 28 2012

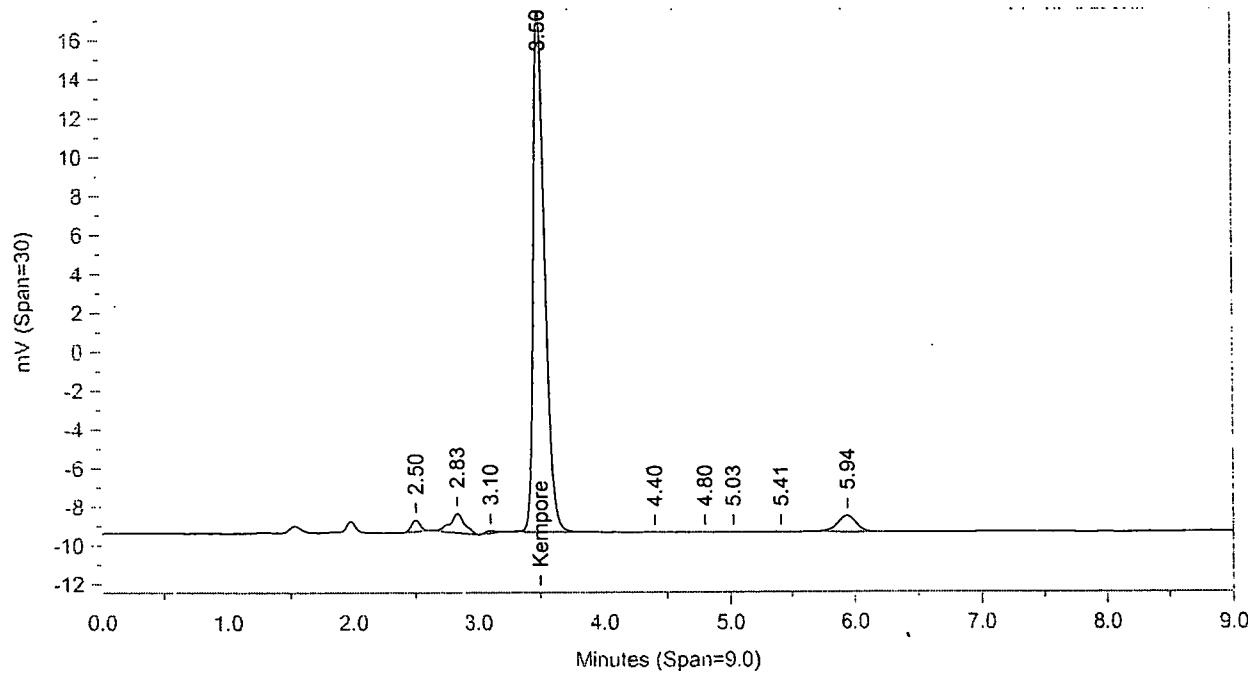
%RPD = High - Low Amount divided by the Average times 100

Higher Amount Found

* Recovery outside QC Limits

Printed on: 11/15/2012 14:22:44

Kempore in water



Sample Name:LCSDA 11/14/12 AALCSD31319 LCSD 123190031A 02727A

Instrument ID:CP09-K3593A

Injected on: 11/14/2012 9:44:14 PM

Volume Inj. per column: 1

HPLC Column ID: Capcell CN, 250mmX4.6mmX5um

Sample Amount: 10

Dilution Factor: 10

Heading 2 = 100% Phosphate buffer

Raw File: C:\CPWIN\DATA1\1K11319.13R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4 Area Width: 0.1 Area Reject: 0

Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.502	605	2854	.079	.	
2.834	1001	8209	.115	.	
3.103	131	826	.152	.	
3.498	27182	167551	.093	7911.511	Kempore
4.403	9	98	.24	.	
4.795	11	87	.171	.	
5.027	8	22	.043	.	
5.411	10	84	.233	.	
5.942	838	9172	.164	.	

FILES:

Area file: C:\CPWIN\DATA1\1K11319.13A

Method file: C:\CPWIN\DATA1\KEMP.MET

Calibration File: C:\CPWIN\DATA1\1K11319.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/14/2012 9:53:22 PM

File reported on: 11/14/2012 at 9:53:24 PM

Lancaster Laboratories Single Component Data Summary

Sample Name: LCSDA 11/14/12

Sample Amount: 10 ml

LCSD31319 Sample ID: AA

Batchnumber: 123190031A

SDG:

State:

Analyses: 02727 10342

Analysis Report (A)

Injected on : NOV 16, 2012 17:36:24
Instrument : CP09--K3593A
Result file : 1K11321.12R
Calibration file : 1K11321.CAL
Method file : KEMPB.MET

%SSR(Kempore) :

Peak name	Min	R.T.	Max	Height	Amount
Kempore	3.04	3.19	3.34	11107	7944.317383

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
<input checked="" type="checkbox"/> Kempore	_____	_____	<1000	<230	_____	_____	_____

Units: ug/l

Reviewed by: _____
James H. Place
Senior Chemist

Date: NOV 20 2012

Analysis Report (B)

Injected on : NOV 16, 2012 17:36:24
Instrument :
Result file :
Calibration file :
Method file :

Valerie L. Tamayko
Supplies Specialist

Verified by: _____

Date: NOV 28 2012

%RPD = High - Low Amount divided by the Average times 100

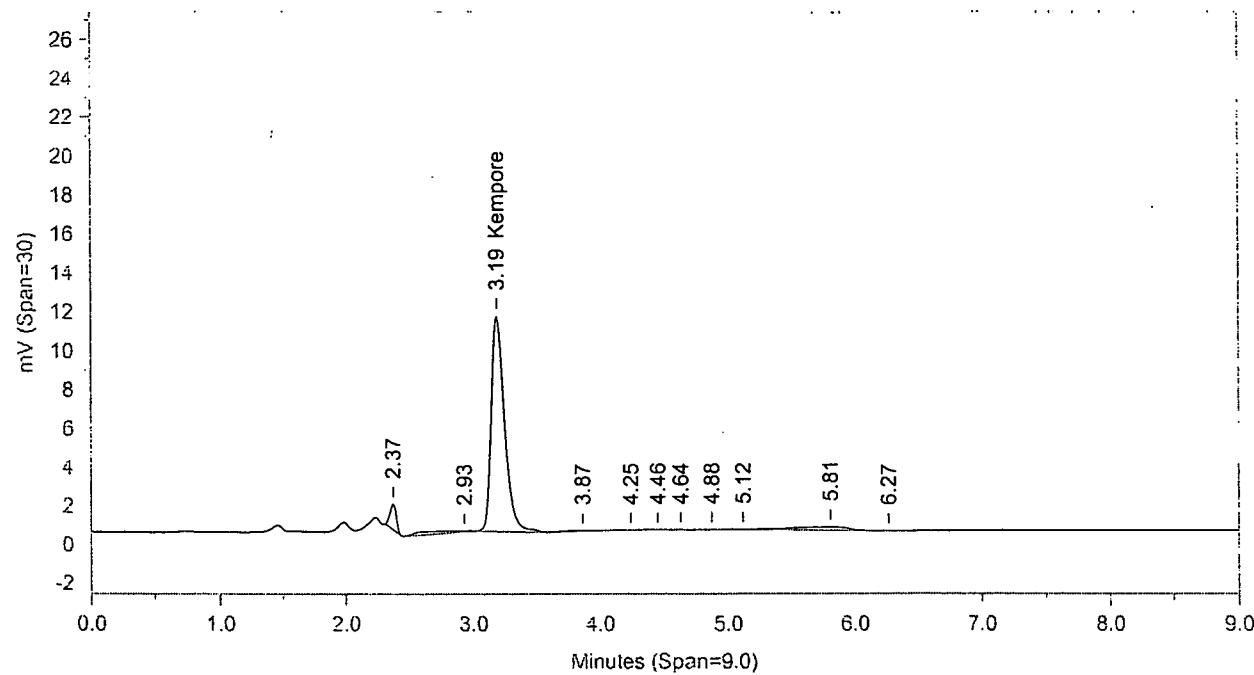
Higher Amount Found

* Recovery outside QC Limits

Printed on: 11/20/2012 18:16:16

OLN81 0070

Kempore in water



Sample Name:LCSDA 11/14/12 AALCSD31319 LCSD 123190031A 02727A

Instrument ID:CP09--K3593A

Injected on: 11/16/2012 5:27:24 PM

Volume Inj. per column: 1

HPLC Column ID: Supelcosil LC PAH, 250mmX4.6mmX5um

Sample Amount: 10

Dilution Factor: 10

Heading 2 = 100% Phosphate buffer

Raw File: C:\CPWIN\DATA1\1K11321.12R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4 Area Width: 0.1 Area Reject: 0

Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.374	1327	4492	.07	.	
2.934	50	2997	.477	.	
3.19	11107	80852	.109	7944.317	Kempore
3.865	18	425	.251	.	
4.246	8	95	.223	.	
4.462	8	49	.14	.	
4.639	12	112	.254	.	
4.875	6	20	.062	.	
5.123	8	55	.167	.	
5.809	182	5119	.641	.	
6.27	9	100	.221	.	

FILES:

Area file: C:\CPWIN\DATA1\1K11321.12A

Method file: C:\CPWIN\DATA1\KEMPB.MET

Calibration File: C:\CPWIN\DATA1\1K11321.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/16/2012 5:36:32 PM

File reported on: 11/16/2012 at 5:36:34 PM

Extraction/Distillation/Digestion Logs Data

123190031A

Dept: 24 Prep Analysis: 00000

QC	Sample Code	Amt (mL)	SS/S Sol.	Amt (mL)	MS Sol.	Kempore in Water					
						Amt (mL)	FV (mL)	pH	pH	BC	Comments
6854286MS	404M2	10			ST1231924A	1.0	10			654	
6854287MSD	404M2	10			1	1.0	10			1	
BLANKA	PBLK31319	10				10					N/C
LCSA	LCS31319	10			ST1231924A	1.0	10			1	
LCSDA	LCSD31319	10			1	1.0	10			1	

Sample #	Sample Code	Amt (mL)	SS/S Sol.	Amt (mL)	FV (mL)	pH	BC	Comments		Analyses	Due Date	Prio
1	6854278	404S1	10		10					02727	11/21/2012	P
2	6854279	404M1	10		10					02727	11/21/2012	P
3	6854280	400BR	10		10					02727	11/21/2012	P
4	6854281	400D1	10		10					02727	11/21/2012	P
5	6854282	404BR	10		10					02727	11/21/2012	P
6	6854283	400D2	10		10					02727	11/21/2012	P
7	6854284	404S2	10		10					02727	11/21/2012	P
8	6854285BKG	404M2	10		10					02727	11/21/2012	P
9	6854289	404MD	10		10					02727	11/21/2012	P
10	6854322	SW-7-	10		10					02727	11/21/2012	P

O L N 6 1 0 0 7 U

Rack ID:	Work Station
DF = Dilution Factor	FV = Final Volume

S-bath ID	C S-bath ID	C N-Evap	C M-vap	C
				123190031A

Documented temps are NiST corrected.



Opex Data

Case Narrative Conformance/Non-Conformance Summary



Lancaster
Laboratories

Case Narrative/Conformance Summary

CLIENT: Olin Corporation
SDG: OLN81

Pesticide Residue Analysis

Fraction: Opex

Sample #	Client ID	Matrix			Comments
		Liquid	Solid	DF	
6854322	OC-SW-EDSD/SW7-XXX	X		1	

See QC Reference List for Associated Batch QC Samples

SAMPLE RECEIPT:

Samples were received in good condition and within temperature requirements.

HOLDING TIME:

All holding times were met.

PREPARATION/EXTRACTION/DIGESTION:

No problems were encountered.

CALIBRATION/STANDARDIZATION:

(Sample number(s): 6854322: Analysis: 02726)
For dual column analyses in which the calibration (initial and/or continuing) response is outside the acceptance criteria on one column and within criteria on the second column affected analytes are reported from the compliant column. The sample raw data identifies the column used to report each analyte.

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

MS/MSD

Matrix QC may not be included if site-specific QC were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, laboratory spike data (LCS) are provided.

SAMPLE ANALYSIS:

No problems were encountered with the analysis of the samples.



Lancaster
Laboratories

Case Narrative/Conformance Summary

CLIENT: Olin Corporation
SDG: OLN81

Pesticide Residue Analysis

Fraction: Opex

Abbreviation Key

UNSPK = Unspiked (for MS/MSD)	LOQ = Limit of Quantitation
MS = Matrix Spike	MDL = Method Detection Limit
MSD = Matrix Spike Duplicate	ND = Not Detected
BKG = Background (for Duplicate)	J = Estimated Value
D = Duplicate (DUP)	E= out of calibration range
LCS = Lab Control Sample	RE = Repreparation/Reanalysis
LCSD = Lab Control Sample Duplicate	* = Out of Specification

Narrative Reviewed and Approved 11/28/2012 by
(Date)

M. Susan Kreider
M. Susan Kreider
Senior Specialist

Quality Control and Calibration Summary Forms



Lancaster
Laboratories

Quality Control Reference List
Pesticide Residue Analysis

CLIENT: Olin Corporation
SDG: OLN81

Fraction: Opex

Analysis
Opex in Water

Batch Number
123180032A

Sample Number
PBLK32318
LCS32318
LCSD32318
6854322

Analysis Date
11/15/2012 18:43:00
11/15/2012 18:55:00
11/15/2012 19:06:00
11/15/2012 23:00:00



Lancaster
Laboratories

Quality Control Summary
Method Blank
Pesticide Residue Analysis
SDG: OLN81
Matrix: LIQUID

Fraction: Opex

123180032A / PBLK32318	Analysis Date	Blank Results	Units	MDL	LOQ
Opex in Water	11/15/12	N.D.	ug/l	20	100



Lancaster
Laboratories

Quality Control Summary
Laboratory Control Standard (LCS)
Laboratory Control Standard Duplicate(LCSD)

SDG: OLN81
Matrix: LIQUID

Pesticide Residue Analysis

Fraction: Opex

Analyte	Batch: 123180032A (Sample number(s): 6854322)							
	Spike Added ug/l	LCS Conc ug/l	LCSD Conc ug/l	LCS %Rec	LCSD %Rec	%Rec Limits	%RPD	%RPD Limits
Opex in Water	755	732.56	731.58	97	97	70-130	0	30

6D
INITIAL CALIBRATION - RETENTION TIME SUMMARY

Lab Name: Lancaster Laboratories

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument: X3593A

Calibration File: 1X11318

GC Column (1): SUP PAH

ID: 250 (mm)

Update File:

Date(s) Analyzed: 11/13/2012 11/13/2012

COMPOUND	RT OF STANDARDS					MIDPOINT Level 1 RT	RT WINDOW	
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5		FROM	TO
Opex	4.20	4.20	4.19	4.19	4.20	4.20	4.10	4.30



11/14/12

6E

INITIAL CALIBRATION - CALIBRATION FACTOR SUMMARY

Lab Name: Lancaster Laboratories

Contract:

Lab Code: Case No.:

SAS No.:

SDG No.:

Instrument: X3593ACalibration File: 1X11318GC Column (1): SUP PAHID: 250 (mm)Date(s) Analyzed: 11/13/2012 11/13/2012

COMPOUND	CALIBRATION FACTORS					MEAN	%RSD
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5		
Opex	3.62E+01	3.53E+01	3.66E+01	3.49E+01	3.48E+01	3.56E+01	2.2

Average % RSD: 2.2

Calibration File Name: C:\CPWIN\DATA1\1X11318.CAL Version = 14

External standard calibration

No injection volume correction

No sample weight correction

Area reject threshold = 100

Reference peak area reject threshold = 1000

Amount units =

1 components with 5 levels each

James H. Place
Senior Chemist

NOV 16 2012

1 Opex

Retention time = 4.202 min., Search window = 0.100 min.

Low alarm amount = 0, High alarm amount = 0

Group number = 0, Component constant = 0

No retention time reference component

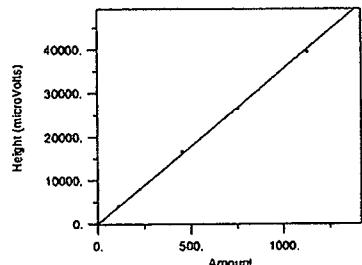
Single peak quantification by height

J.A. McDermott
Senior Chemist Group Leader

Level	Amount	Height	Height/Amt	Source	Date and time
1	113.250	4099.8	36.2012	1X11318.09A	11/14/2012 3:11:
2	226.500	7985.5	35.25597	1X11318.08A	11/14/2012 3:11:
3	453.000	16560.4	36.55708	1X11318.07A	11/14/2012 3:11:
4	755.000	26385.1	34.94715	1X11318.06A	11/14/2012 3:11:
5	1132.500	39440.1	34.82565	1X11318.05A	11/14/2012 3:10:

NOV 15 2012

Level	Amount	Height	Height/Amt	Source	Date and time
1	113.250	4099.8	36.2012	1X11318.09A	11/14/2012 3:11:
2	226.500	7985.5	35.25597	1X11318.08A	11/14/2012 3:11:
3	453.000	16560.4	36.55708	1X11318.07A	11/14/2012 3:11:
4	755.000	26385.1	34.94715	1X11318.06A	11/14/2012 3:11:
5	1132.500	39440.1	34.82565	1X11318.05A	11/14/2012 3:10:



Calibration formula: $Y = 35.557 X$

Fit type = Avg CF with equal weighting, forced to origin

Coefficient of determination = 0.9986, Average error = 1.85%

Average CF = 35.5574 with RSD = 2.18%

6D

INITIAL CALIBRATION - RETENTION TIME SUMMARY

Lab Name: Lancaster Laboratories

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument: X3593A

Calibration File: 1X11320

GC Column (1): SUP PAH

ID: 250 (mm)

Update File:

Date(s) Analyzed: 11/15/2012 11/15/2012

COMPOUND	RT OF STANDARDS					MIDPOINT <small>Level 1</small> RT	RT WINDOW	
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5		FROM	TO
Opex	3.25	3.25	3.25	3.25	3.25	3.25	3.15	3.35

*JL/1586
11/16/12*

INITIAL CALIBRATION - CALIBRATION FACTOR SUMMARY

Lab Name: Lancaster Laboratories

Contract:

Lab Code: Case No.:

SAS No.:

SDG No.:

Instrument: X3593ACalibration File: 1X11320GC Column (1) : SUP PAHID: 250 (mm)Date(s) Analyzed: 11/15/2012 11/15/2012

COMPOUND	CALIBRATION FACTORS					MEAN	%RSD
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5		
Opex	3.13E+01	3.07E+01	3.02E+01	3.01E+01	2.94E+01	3.03E+01	2.3

Average % RSD: 2.3

Calibration File Name: C:\CPWIN\DATA1\1X11320.CAL Version = 7

External standard calibration

No injection volume correction

No sample weight correction

Area reject threshold = 100

Reference peak area reject threshold = 1000

Amount units =

1 components with 5 levels each

1 Opex

Retention time = 3.253 min., Search window = 0.100 min.

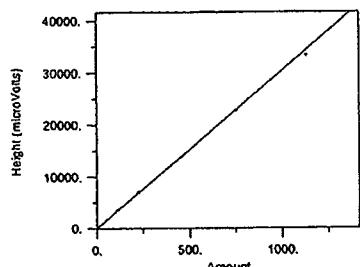
Low alarm amount = 0, High alarm amount = 0

Group number = 0, Component constant = 0

No retention time reference component

Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	113.250	3543.6	31.29013	1X11320.08A	11/15/2012 6:31:
2	226.500	6962.4	30.73886	1X11320.07A	11/15/2012 6:31:
3	453.000	13664.6	30.16475	1X11320.06A	11/15/2012 6:31:
4	755.000	22712.1	30.08225	1X11320.05A	11/15/2012 6:30:
5	1132.500	33335.0	29.43488	1X11320.04A	11/15/2012 6:30:



Calibration formula: $Y = 30.342 X$

Fit type = Avg CF with equal weighting, forced to origin

Coefficient of determination = 0.9981, Average error = 1.77%

Average CF = 30.3422 with RSD = 2.32%

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument: X3593A

Init. Calib Date(s): 11/13/12 11/13/12

GC Column (1) : SUP PAH

ID: 250 (mm)

Date Analyzed: 11/13/12

Lab File ID: 1X11318.21R

Time Analyzed: 23:46

Lab Standard ID: OPEX3EI

Initial Calibration: 1X11318

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Opex	4.20	4.10	4.30	454.51	453.00	0

Compounds 1

Average of %D:

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument: X3593A

Init. Calib Date(s): 11/13/12

11/13/12

GC Column (1) : SUP PAH

ID: 250 (mm)

Date Analyzed: 11/14/12

Lab File ID: 1X11318.32R

Time Analyzed: 1:44

Lab Standard ID: OPEX3EJ

Initial Calibration: 1X11318

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Opex	4.19	4.10	4.30	465.39	453.00	3

Compounds 1

Average of %D: 3

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument: X3593A

Init. Calib Date(s): 11/13/12

11/13/12

GC Column (1) : SUP PAH

ID: 250 (mm)

Date Analyzed: 11/14/12

Lab File ID: 1X11318.36R

Time Analyzed: 2:26

Lab Standard ID: OPEX3EK

Initial Calibration: 1X11318

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT	NOM AMOUNT	%D
Opex	4.20	4.10	4.30	414.45	453.00	-9

Average of %D: 9

Compounds 1

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument: X3593A

Init. Calib Date(s): 11/15/12 11/15/12

GC Column (1) : SUP PAH

ID: 250 (mm)

Date Analyzed: 11/15/12

Lab File ID: 1X11320.20R

Time Analyzed: 20:31

Lab Standard ID: OPEX3EL

Initial Calibration: 1X11320

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Opex	3.25	3.15	3.35	434.98	453.00	-4

Compounds 1

Average of %D: 4

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument: X3593A

Init. Calib Date(s): 11/15/12 11/15/12

GC Column (1) : SUP PAH

ID: 250 (mm)

Date Analyzed: 11/15/12

Lab File ID: 1X11320.31R

Time Analyzed: 22:28

Lab Standard ID: OPEX3EM

Initial Calibration: 1X11320

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Opex	3.25	3.15	3.35	430.55	453.00	-5

Average of %D: 5

Compounds 1

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument: X3593A

Init. Calib Date(s): 11/15/12

11/15/12

GC Column (1) : SUP PAH

ID: 250 (mm)

Date Analyzed: 11/15/12

Lab File ID: 1X11320.35R

Time Analyzed: 23:10

Lab Standard ID: OPEX3EN

Initial Calibration: 1X11320

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Opex	3.25	3.15	3.35	428.82	453.00	-5

Compounds 1

Average of %D: 5

8D
ANALYTICAL SEQUENCE

Sequence: 1X11318

Lab Name: Lancaster laboratories

Contract:

Lab Code:

Case No.:

SAS No:

SDG No.:

GC Column: SUP PAH

ID: 250

Instrument: X3593A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File
001		CONDITIONER	11/13/2012	20:14:16	1X11318
002		CONDITIONER	11/13/2012	20:25:09	1X11318
003		CONDITIONER	11/13/2012	20:35:47	1X11318
004		CONDITIONER	11/13/2012	20:46:23	1X11318
005	OPEX5AA	OPEX51224D	11/13/2012	20:57:01	1X11318
006	OPEX4AA	OPEX41224D	11/13/2012	21:07:38	1X11318
007	OPEX3AA	OPEX31224D	11/13/2012	21:18:16	1X11318
008	OPEX2AA	OPEX21224D	11/13/2012	21:28:53	1X11318
009	OPEX1AA	OPEX11224D	11/13/2012	21:39:30	1X11318
010	MDOXXAA	MDOXX1224D	11/13/2012	21:50:08	1X11318
011	PBLK32318	BLANKA	11/13/2012	22:00:45	1X11318
012	LCS32318	LCSA	11/13/2012	22:11:22	1X11318
013	LCSD32318	LCSDA	11/13/2012	22:21:59	1X11318
014	PBLK33318	BLANKA	11/13/2012	22:32:37	1X11318
015		MDL1	11/13/2012	22:43:14	1X11318
016		MDL2	11/13/2012	22:53:52	1X11318
017		MDL3	11/13/2012	23:04:29	1X11318
018		MDL4	11/13/2012	23:15:06	1X11318
019		MDL5	11/13/2012	23:25:44	1X11318
020		MDL6	11/13/2012	23:36:21	1X11318
021	OPEX3EI	OPEX31224D	11/13/2012	23:46:58	1X11318
022		MDL7	11/13/2012	23:57:35	1X11318
023	404S1	6854278	11/14/2012	00:08:13	1X11318
024	404M1	6854279	11/14/2012	00:18:50	1X11318
025	400BR	6854280	11/14/2012	00:30:06	1X11318
026	400D1	6854281	11/14/2012	00:40:44	1X11318
027	404BR	6854282	11/14/2012	00:51:21	1X11318
028	400D2	6854283	11/14/2012	01:01:59	1X11318
029	404S2	6854284	11/14/2012	01:12:35	1X11318
030	404M2	6854285	11/14/2012	01:23:13	1X11318
031	404M2	6854286	11/14/2012	01:33:50	1X11318
032	OPEX3EJ	OPEX31224D	11/14/2012	01:44:27	1X11318
033	404M2	6854287	11/14/2012	01:55:05	1X11318

8D
ANALYTICAL SEQUENCE

Sequence: 1X11318

Lab Name: Lancaster laboratories

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

GC Column: SUP PAH

ID: 250

Instrument: X3593A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File
034	404MD	6854289	11/14/2012	02:05:42	1X11318
035	SW-7-	6854322	11/14/2012	02:16:20	1X11318
036	OPEX3EK	OPEX31224D	11/14/2012	02:26:57	1X11318

8D
ANALYTICAL SEQUENCE

Sequence: 1X11320

Lab Name: Lancaster laboratories

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

GC Column: SUP PAH

ID: 250

Instrument: X3593A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File
001		CONDITIONER	11/15/2012	17:09:23	1X11320
002		CONDITIONER	11/15/2012	17:20:00	1X11320
003		CONDITIONER	11/15/2012	17:30:37	1X11320
004	OPEX5AA	OPEX51224D	11/15/2012	17:41:14	1X11320
005	OPEX4AA	OPEX41224D	11/15/2012	17:51:51	1X11320
006	OPEX3AA	OPEX31224D	11/15/2012	18:02:27	1X11320
007	OPEX2AA	OPEX21224D	11/15/2012	18:13:05	1X11320
008	OPEX1AA	OPEX11224D	11/15/2012	18:23:42	1X11320
009	MDOXXAA	MDOXX1224D	11/15/2012	18:34:18	1X11320
010	PBLK32318	BLANKA	11/15/2012	18:43:36	1X11320
011	LCS32318	LCSA	11/15/2012	18:55:32	1X11320
012	LCSD32318	LCSDA	11/15/2012	19:06:09	1X11320
013	PBLK33318	BLANKA	11/15/2012	19:16:45	1X11320
014		MDL1	11/15/2012	19:27:22	1X11320
015		MDL2	11/15/2012	19:37:59	1X11320
016		MDL3	11/15/2012	19:48:36	1X11320
017		MDL4	11/15/2012	19:59:13	1X11320
018		MDL5	11/15/2012	20:09:50	1X11320
019		MDL6	11/15/2012	20:20:26	1X11320
020	OPEX3EL	OPEX31224D	11/15/2012	20:31:03	1X11320
021		MDL7	11/15/2012	20:41:40	1X11320
022	404S1	6854278	11/15/2012	20:52:17	1X11320
023	404M1	6854279	11/15/2012	21:02:54	1X11320
024	400BR	6854280	11/15/2012	21:13:31	1X11320
025	400D1	6854281	11/15/2012	21:24:47	1X11320
026	404BR	6854282	11/15/2012	21:35:23	1X11320
027	400D2	6854283	11/15/2012	21:46:00	1X11320
028	404S2	6854284	11/15/2012	21:56:37	1X11320
029	404M2	6854285	11/15/2012	22:07:14	1X11320
030	404M2	6854286	11/15/2012	22:17:51	1X11320
031	OPEX3EM	OPEX31224D	11/15/2012	22:28:28	1X11320
032	404M2	6854287	11/15/2012	22:39:05	1X11320
033	404MD	6854289	11/15/2012	22:49:41	1X11320

8D
ANALYTICAL SEQUENCE

Sequence: 1X11320

Lab Name: Lancaster laboratories

Contract:

Lab Code:

Case No.:

SAS No:

SDG No.:

GC Column: SUP PAH

ID: 250

Instrument: X3593A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File
034	SW-7-	6854322	11/15/2012	23:00:19	1X11320
035	OPEX3EN	OPEX31224D	11/15/2012	23:10:55	1X11320

Sample Data



Lancaster
Laboratories

LOQ/MDL Summary
Pesticide Residue Analysis

SDG: OLN81

Fraction: Opex

02726: Opex in Water	Default MDL	Default LOQ	Units
Analyte Name			
Opex in Water	20	100	ug/l

Lancaster Laboratories Single Component Data Summary

Sample Name: 6854322 **SW-7-** **Sample ID:** AA **Batchnumber:** 123180032A
Sample Amount: 10 ml **Total Volume:** 10 ml **Analyst:** 1566 **SDG:** OLN81 **State:** MA
Analyses: 02726

Analysis Report (A)

Injected on : NOV 14, 2012 02:16:20
 Instrument : CP09-X3593A
 Result file : 1X11318.35R
 Calibration file : 1X11318.CAL
 Method file : OPEX.MET

<u>Peak name</u>	<u>Min</u>	<u>R.T.</u>	<u>Max</u>	<u>Height</u>	<u>Amount</u>
Opex	4.10	4.20	4.30	1497	42.100796

Summary Report

<u>Compound Name</u>	<u>Column</u>	<u>Amount Found</u>	<u>LOQ</u>	<u>MDL</u>	<u>Qualifiers</u>	<u>%RPD</u>	<u>Comments</u>
<input checked="" type="checkbox"/> Opex			<100	<20			

Units: ug/l

Reviewed by: James H. Place
Senior Chemist

Date: NOV 16 2012

Analysis Report (B)

Injected on : NOV 14, 2012 02:16:20
 Instrument :
 Result file :
 Calibration file :
 Method file :

<u>Compound Name</u>	<u>Column</u>	<u>Amount Found</u>	<u>LOQ</u>	<u>MDL</u>	<u>Qualifiers</u>	<u>%RPD</u>	<u>Comments</u>
<input checked="" type="checkbox"/> Opex			<100	<20			

Verified by: Valerie L. Tomayko
Principal Examiner

Date: NOV 19 2012

%RPD = High - Low Amount divided by the Average times 100

Higher Amount Found

* Recovery outside QC Limits

Printed on: 11/14/2012 15:30:09

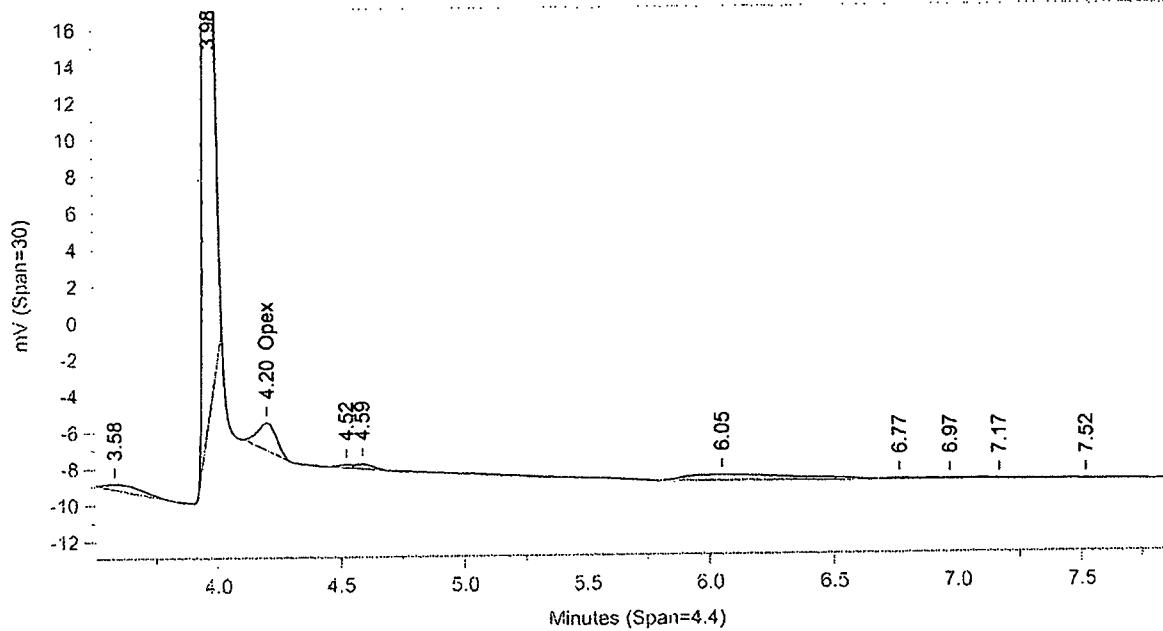
6854322

AASW-7-

T 123180032A 02726

Page1

Opex in water



Sample Name: 6854322 AASW-7- T 123180032A 02726A

Instrument ID: CP09-X3593A

Injected on: 11/14/2012 2:08:26 AM

Volume Inj. per column: 1

HPLC Column ID: Supelcogel H, 250mmX4.6mmX5um

Sample Amount: 10

Dilution Factor: 10

Heading 2 = 0.15% H3PO4

Raw File: C:\CPWIN\DATA\IX11318.35R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4 Area Width: 0.1 Area Reject: 100

Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
3.581	289	3476	.219	.	
3.975	51389	141845	.048	.	
4.203	1497	7837	.142	42.1008	Opex
4.524	170	665	.063	.	
4.588	251	1232	.092	.	
6.051	299	12086	.494	.	
6.767	52	328	.108	.	
6.97	47	341	.083	.	
7.169	47	713	.159	.	
7.519	38	491	.238	.	

FILES:

Area file: C:\CPWIN\DATA\IX11318.35A

Method file: C:\CPWIN\DATA\OPEX.MET

Calibration File: C:\CPWIN\DATA\IX11318.CAL

Format File: C:\CPWIN\DATA\FORM.FMT

Area file created on: 11/14/2012 3:23:32 PM

File reported on: 11/14/2012 at 3:23:33 PM

Lancaster Laboratories Single Component Data Summary

Sample Name: 6854322 RI **SW-7-** **Sample ID:** AA **Batchnumber:** 123180032A
Sample Amount: 10 ml **Total Volume:** 10 ml **Analyst:** 1566 **SDG:** OLN81 **State:** MA
Analyses: 02726

Analysis Report (A)

Injected on : NOV 15, 2012 23:00:19
 Instrument : CP09-X9593A
 Result file : 1X11320.34R
 Calibration file : 1X11320.CAL
 Method file : OPEXB.MET

Analysis Report (B)

Injected on : NOV 15, 2012 23:00:19
 Instrument :
 Result file :
 Calibration file :
 Method file :

Summary Report

<u>Compound Name</u>	<u>Column</u>	<u>Amount Found</u>	<u>LOQ</u>	<u>MDL</u>	<u>Qualifiers</u>	<u>%RPD</u>	<u>Comments</u>
<input checked="" type="checkbox"/> Opex			<100	<20			
Units:	ug/l						
Reviewed by:	James H. Place Senior Chemist						
Date:	NOV 16 2012						
							Valerie L. Temnyuk Principal Specialist
							NOV 19 2012

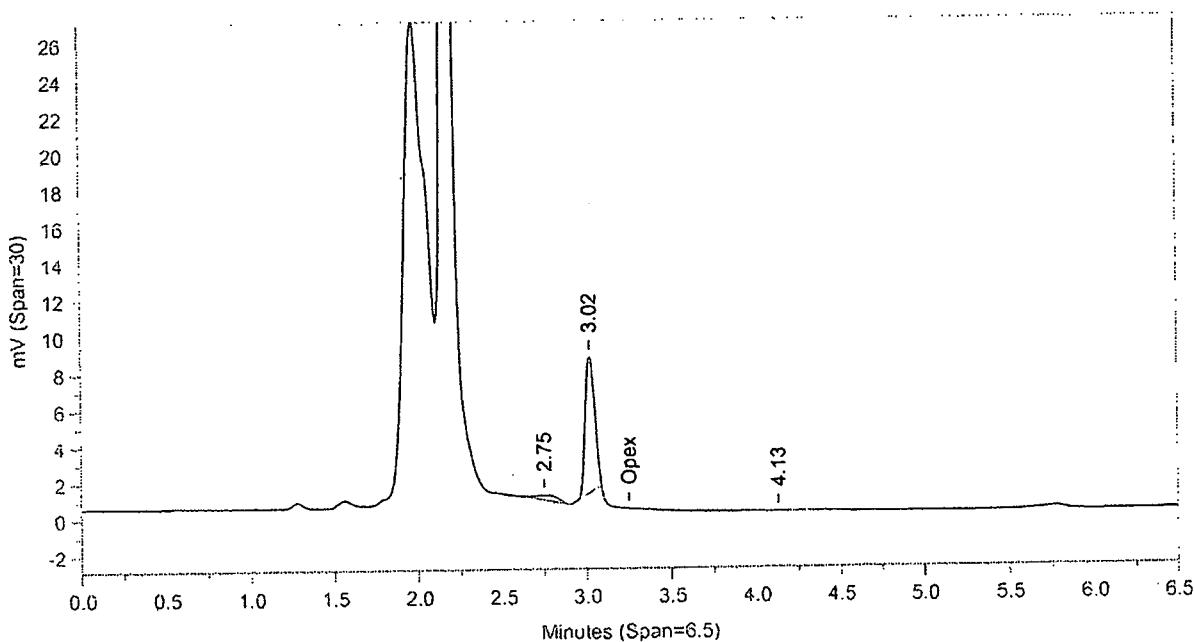
%RPD = High - Low Amount divided by the Average times 100

Higher Amount Found

* Recovery outside QC Limits

Printed on: 11/16/2012 14:19:04

Opex in water



Sample Name: 6854322 RI AASW-7- T 123180032A 02726A

Instrument ID: CP09-X3593A

Injected on: 11/15/2012 10:52:25 PM

Volume Inj. per column: 1

HPLC Column ID: Supelcosil LC PAH, 250mmX4.6mmX5um

Sample Amount: 10

Dilution Factor: 10

Heading 2 = 75% Phosphate buffer: 25%ACN

Raw File: C:\CPWIN\DATA\IX11320.34R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4	Area	Width: 0.1	Area Reject: 100
Calib. Type: External		Quantitation: HEIGHT	

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.748	253	2429	.211		
3.023	7448	29312	.067		
4.131	23	198	.089		

FILES:

Area file: C:\CPWIN\DATA\IX11320.34A

Method file: C:\CPWIN\DATA\OPEXB.MET

Calibration File: C:\CPWIN\DATA\IX11320.CAL

Format File: C:\CPWIN\DATA\FORM.FMT

Area file created on: 11/15/2012 11:00:28 PM

File reported on: 11/15/2012 at 11:00:30 PM

Standards Data

Lancaster Laboratories
CHROM PERFECT SEQUENCE FILE

Sequence File: \\cp9\C-Drive\CPWIN\DATA1\1x11318.seq

Chromatography Directory: \\cp9\C-Drive\CPWIN\data1

Method Directory: \\cp9\C-Drive\CPWIN\data1

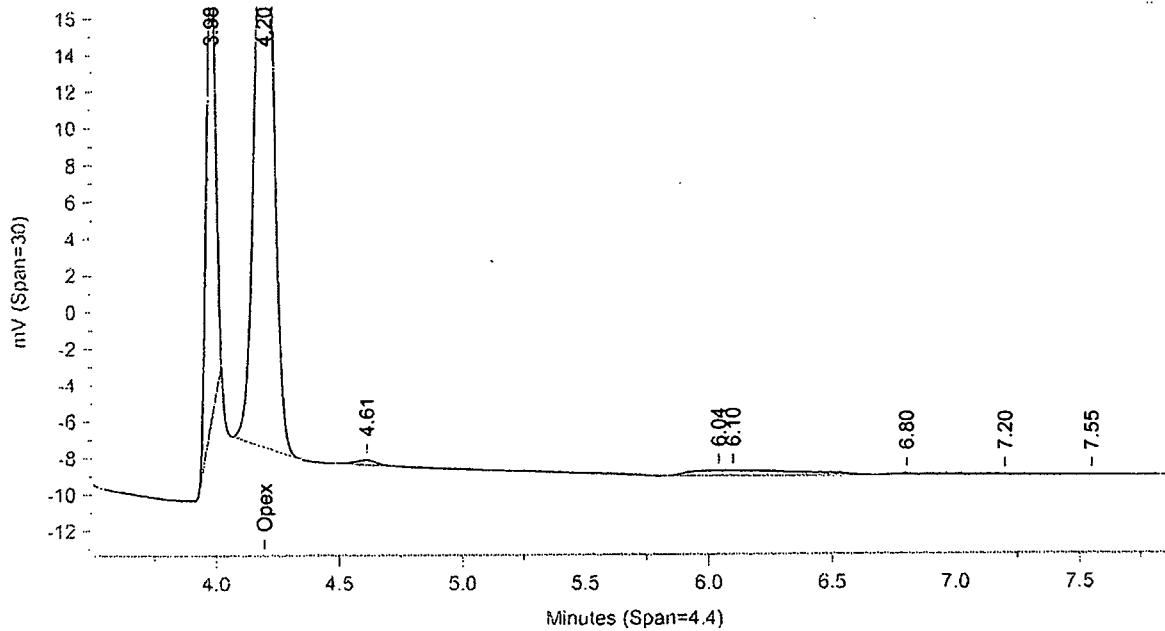
Number of Entries: 36

<u>Samplename</u>	<u>VP</u>	<u>Code</u>	<u>ID</u>	<u>FileName</u>	<u>Method</u>	<u>Samp Amt</u>	<u>DF</u>	<u>Int Std</u>	<u>C</u>	<u>Batch Number</u>	<u>Analysis</u>
1 CONDITIONER		MISC	AA	1x11318.01R	OPEX.MET	1	1	1	0	1231799999	
2 CONDITIONER		MISC	AA	1x11318.02R	OPEX.MET	1	1	1	0	1231799999	
3 CONDITIONER		MISC	AA	1x11318.03R	OPEX.MET	1	1	1	0	1231799999	
4 CONDITIONER		MISC	AA	1x11318.04R	OPEX.MET	1	1	1	0	1231799999	
5 OPEX51224D		ICAL	AA	1x11318.05R	OPEX.MET	1	1	1	5	1231799999	
6 OPEX41224D		ICAL	AA	1x11318.06R	OPEX.MET	1	1	1	4	1231799999	
7 OPEX31224D		ICAL	AA	1x11318.07R	OPEX.MET	1	1	1	3	1231799999	
8 OPEX21224D		ICAL	AA	1x11318.08R	OPEX.MET	1	1	1	2	1231799999	
9 OPEX11224D		ICAL	AA	1x11318.09R	OPEX.MET	1	1	1	1	1231799999	
10 MDOXX1224D		ICAL	AA	1x11318.10R	OPEX.MET	1	1	1	0	1231799999	
11 BLANKA 11/13/12		BLK	AA	1x11318.11R	OPEX.MET	10	10	1	0	123180032A	02726
12 LCSA 11/13/12		LCS	AA	1x11318.12R	OPEX.MET	10	10	1	0	123180032A	02726
13 LCSDA 11/13/12		LCSD	AA	1x11318.13R	OPEX.MET	10	10	1	0	123180032A	02726
14 BLANKA 11/13/12		BLK	AA	1x11318.14R	OPEX.MET	10	10	1	0	123180033A	
15 MDL1 11/13/12		MDL	AA	1x11318.15R	OPEX.MET	50	50	1	0	123180033A	
16 MDL2 11/13/12		MDL	AA	1x11318.16R	OPEX.MET	50	50	1	0	123180033A	
17 MDL3 11/13/12		MDL	AA	1x11318.17R	OPEX.MET	50	50	1	0	123180033A	
18 MDL4 11/13/12		MDL	AA	1x11318.18R	OPEX.MET	50	50	1	0	123180033A	
19 MDL5 11/13/12		MDL	AA	1x11318.19R	OPEX.MET	50	50	1	0	123180033A	
20 MDL6 11/13/12		MDL	AA	1x11318.20R	OPEX.MET	50	50	1	0	123180033A	
21 OPEX31224D		CCAL	EI	1x11318.21R	OPEX.MET	1	1	1	0	1231799999	
22 MDL7 11/13/12		MDL	AA	1x11318.22R	OPEX.MET	50	50	1	0	123180033A	
23 6854278		T	AA	1x11318.23R	OPEX.MET	10	10	1	0	123180032A	02726
24 6854279		T	AA	1x11318.24R	OPEX.MET	10	10	1	0	123180032A	02726
25 6854280		T	AA	1x11318.25R	OPEX.MET	10	10	1	0	123180032A	02726
26 6854281		T	AA	1x11318.26R	OPEX.MET	10	10	1	0	123180032A	02726
27 6854282		T	AA	1x11318.27R	OPEX.MET	10	10	1	0	123180032A	02726
28 6854283		T	AA	1x11318.28R	OPEX.MET	10	10	1	0	123180032A	02726
29 6854284		T	AA	1x11318.29R	OPEX.MET	10	10	1	0	123180032A	02726
30 6854285		T	AA	1x11318.30R	OPEX.MET	10	10	1	0	123180032A	02726
31 6854286MS		MS	AA	1x11318.31R	OPEX.MET	10	10	1	0	123180032A	02726
32 OPEX31224D		CCAL	EJ	1x11318.32R	OPEX.MET	1	1	1	0	1231799999	
33 6854287MSD		MSD	AA	1x11318.33R	OPEX.MET	10	10	1	0	123180032A	02726
34 6854289		T	AA	1x11318.34R	OPEX.MET	10	10	1	0	123180032A	02726
35 6854322		T	AA	1x11318.35R	OPEX.MET	10	10	1	0	123180032A	02726
36 OPEX31224D		CCAL	EK	1x11318.36R	OPEX.MET	1	1	1	0	1231799999	

Set-up by: 
11/13/2012

Date: 11/13/12

Opex in water



Sample Name: OPEX51224D AAOPEX5AA ICAL 1231799999A

Instrument ID: CP09--X3593A Injected on: 11/13/2012 8:49:07 PM
 Volume Inj. per column: 1 HPLC Column ID: Supelcogel H, 250mmX4.6mmX5um
 Sample Amount: 1 Dilution Factor: 1

Heading 2 = 0.15% H₃PO₄

Raw File: C:\CPWIN\DATA1\X11318.05R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4	Area	Width: 0.1	Area Reject: 100
Calib. Type: External		Quantitation: HEIGHT	

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
3.363	444	2853	.143		
3.982	25275	66334	.047		
4.197	39440	190364	.076	1109.194	Opex
4.614	258	1607	.182		
6.044	287	2766	.161		
6.102	290	6920	.418		
6.805	89	1634	.326		
7.203	61	704	.097		
7.551	52	782	.266		

FILES:

Area file: C:\CPWIN\DATA1\X11318.05A

Method file: C:\CPWIN\DATA1\OPEX.MET

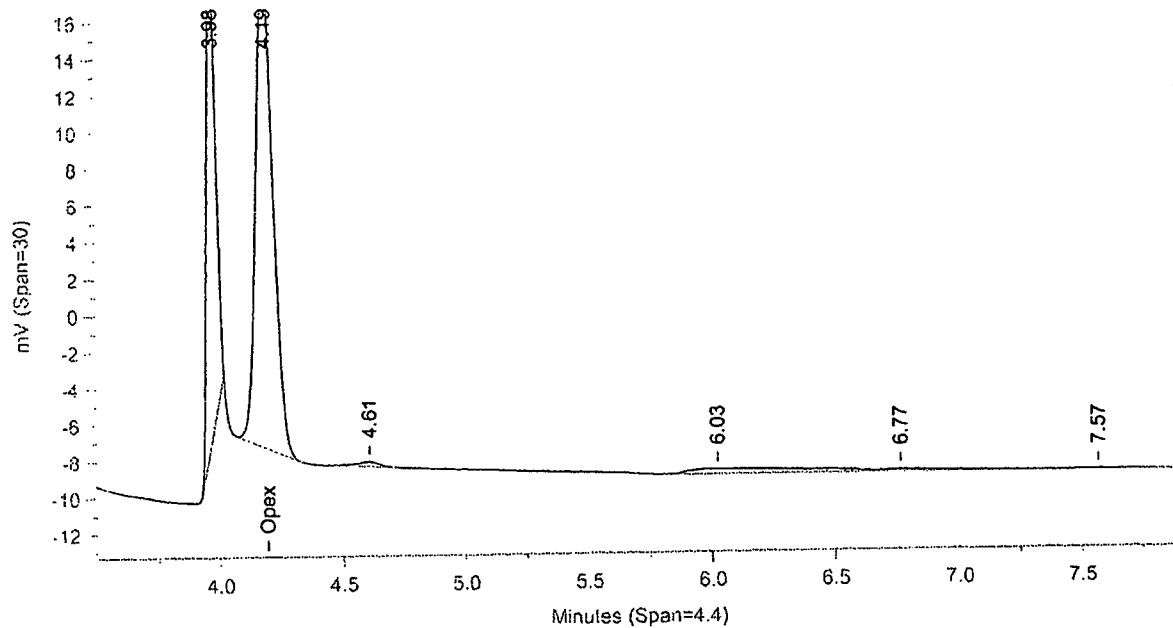
Calibration File: C:\CPWIN\DATA1\X11318.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/14/2012 3:14:14 PM

File reported on: 11/14/2012 at 3:14:16 PM

Opex in water



Sample Name:OPEX41224D AAOPEX4AA ICAL 1231799999A

Instrument ID:CP09--X3593A

Injected on: 11/13/2012 8:59:44 PM

Volume Inj. per column: 1

HPLC Column ID: Supelcogel H, 250mmX4.6mmX5um

Sample Amount: 1

Dilution Factor: 1

Heading 2 = 0.15% H3PO4

Raw File: C:\CPWIN\DATA1\X11318.06R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4	Area	Width: 0.1	Area Reject: 100
Calib. Type: External		Quantitation: HEIGHT	

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
3.362	406	2799	.146		
3.979	25501	68901	.048		
4.194	26385	125880	.076	742.0421	Opex
4.61	265	1682	.183		
6.026	280	10194	.689		
6.766	124	2680	.33		
7.57	43	642	.265		

FILES:

Area file: C:\CPWIN\DATA1\X11318.06A

Method file: C:\CPWIN\DATA1\OPEX.MET

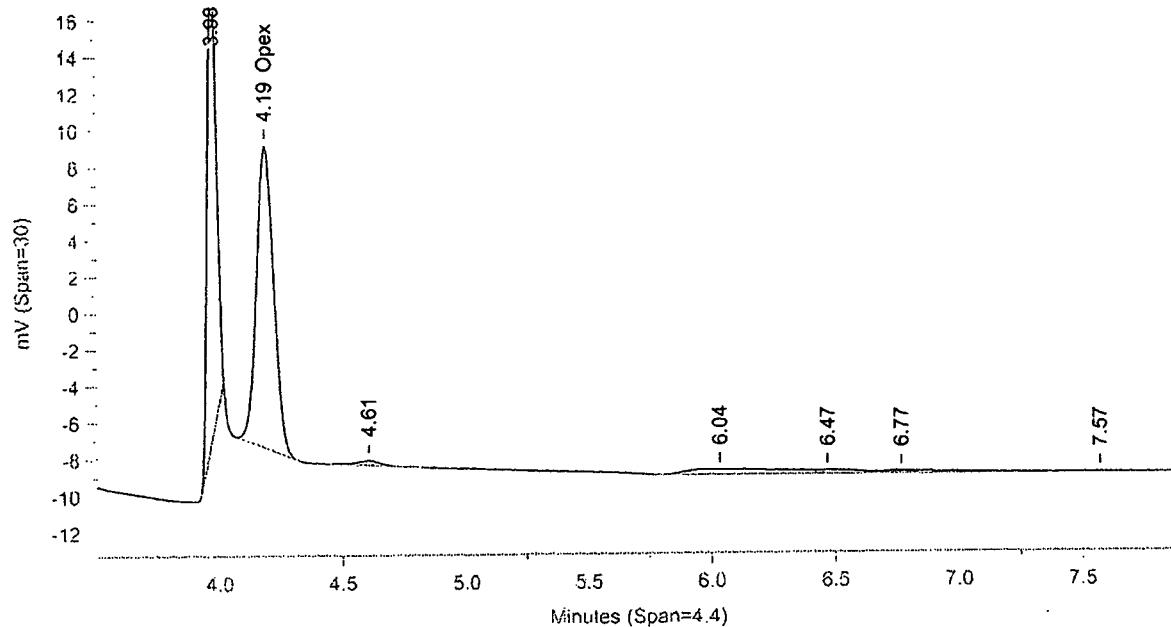
Calibration File: C:\CPWIN\DATA1\X11318.CAL

Format File: C:\CPWIN\DATA1\FORMAT.FMT

Area file created on: 11/14/2012 3:14:26 PM

File reported on: 11/14/2012 at 3:14:28 PM

Opex in water



Sample Name: OPEX31224D AAOPEX3AA ICAL 1231799999A

Instrument ID: CP09--X3593A

Injected on: 11/13/2012 9:10:22 PM

Volume Inj. per column: 1

HPLC Column ID: Supelcogel H, 250mmX4.6mmX5um

Sample Amount: 1

Dilution Factor: 1

Heading 2 = 0.15% H3PO4

Raw File: C:\CPWIN\DATA1\IX11318.07R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4	Area	Width: 0.1	Area Reject: 100
Calib. Type: External		Quantitation: HEIGHT	

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
3.337	208	1105	.101	.	
3.978	25986	69189	.048	.	
4.193	16560	79102	.077	465.7358	Opex
4.608	258	1797	.217	.	
6.036	282	8067	.541	.	
6.472	195	1839	.131	.	
6.771	125	3313	.417	.	
7.574	57	972	.337	.	

FILES:

Area file: C:\CPWIN\DATA1\IX11318.07A

Method file: C:\CPWIN\DATA1\OPEX.MET

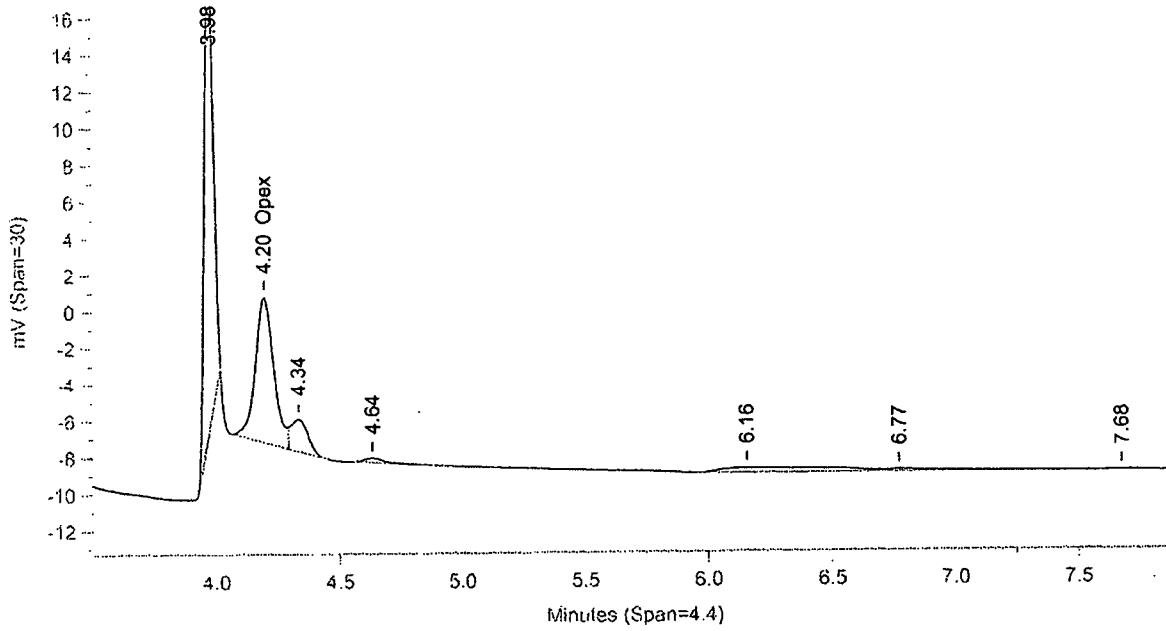
Calibration File: C:\CPWIN\DATA1\IX11318.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/14/2012 3:14:38 PM

File reported on: 11/14/2012 at 3:14:40 PM

Opex in water



Sample Name: OPEX21224D AAOPEX2AA ICAL 1231799999A

Instrument ID: CP09-X3593A

Injected on: 11/13/2012 9:20:59 PM

Volume Inj. per column: 1

HPLC Column ID: Supelcogel H, 250mmX4.6mmX5um

Sample Amount: 1

Dilution Factor: 1

Heading 2 = 0.15% H3PO4

Raw File: C:\CPWIN\DATA1\X11318.08R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4	Area	Width: 0.1	Area Reject: 100
Calib. Type: External		Quantitation: HEIGHT	

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
3.981	25223	66844	.047		
4.199	7985	41496	.073	224.5798	Opex
4.335	1754	8203	.088		
4.635	253	1428	.151		
6.16	249	7760	.56		
6.773	113	3118	.298		
7.678	52	659	.235		

FILES:

Area file: C:\CPWIN\DATA1\X11318.08A

Method file: C:\CPWIN\DATA1\OPEX.MET

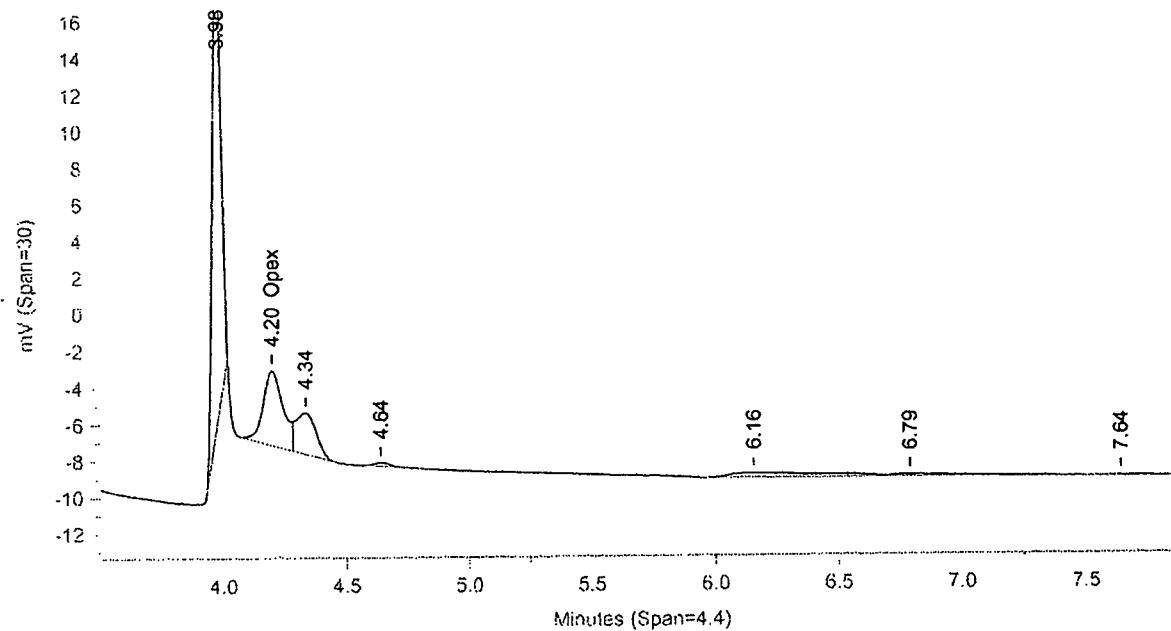
Calibration File: C:\CPWIN\DATA1\X11318.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/14/2012 3:14:50 PM

File reported on: 11/14/2012 at 3:14:52 PM

Opex in water



Sample Name: OPEX11224D AAOPEX1AA ICAL 1231799999A

Instrument ID: CP09-X3593A
 Volume Inj. per column: 1
 Sample Amount: 1
 Heading 2 = 0.15% H₃PO₄
 Raw File: C:\CPWIN\DATA1\IX11318.09R
 Analyst: 1566

Injected on: 11/13/2012 9:31:36 PM
 HPLC Column ID: Supelcogel H, 250mmX4.6mmX5um
 Dilution Factor: 1

Integration & Calculation Parameters:

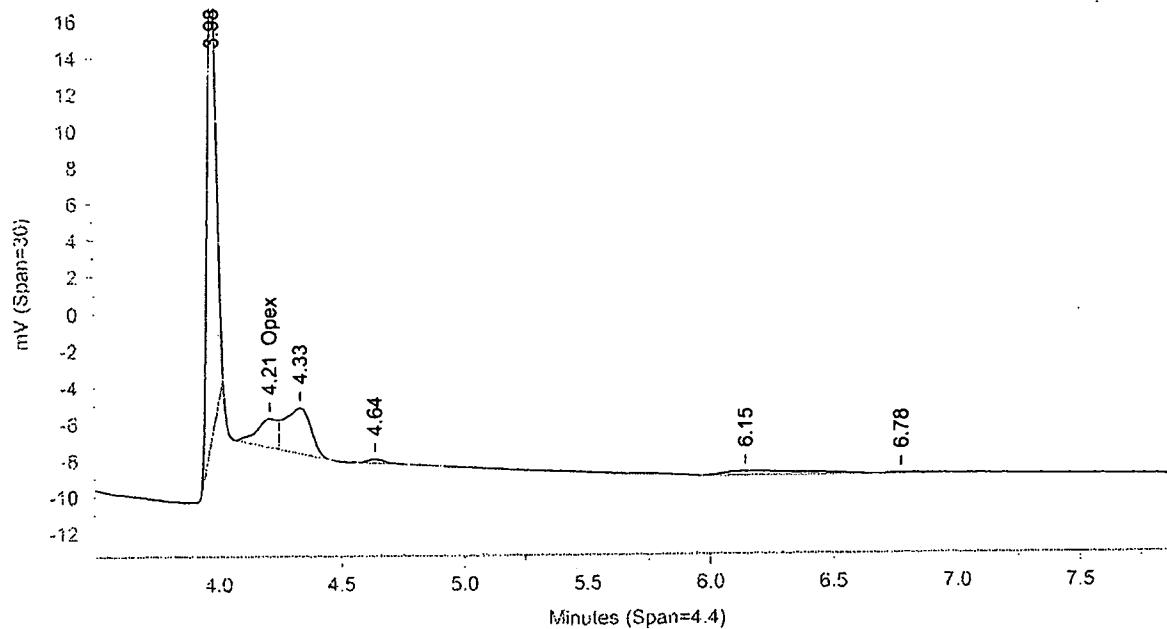
Threshold: -4	Area	Width: 0.1	Area Reject: 100
Calib. Type: External		Quantitation: HEIGHT	

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
3.983	25050	65038	.047		
4.202	4100	23306	.076	115.3005	Opex
4.337	2287	12403	.101		
4.642	196	925	.117		
6.159	231	9684	.542		
6.792	65	1540	.412		
7.645	23	293	.247		

FILES:

Area file: C:\CPWIN\DATA1\IX11318.09A
 Method file: C:\CPWIN\DATA1\OPEX.MET
 Calibration File: C:\CPWIN\DATA1\IX11318.CAL
 Format File: C:\CPWIN\DATA1\FORM.FMT
 Area file created on: 11/14/2012 3:15:04 PM
 File reported on: 11/14/2012 at 3:15:05 PM

Opex in water



Sample Name:MDOXX1224D AAMDOXXAA ICAL 1231799999A

Instrument ID:CP09--X3593A

Injected on: 11/13/2012 9:42:14 PM

Volume Inj. per column: 1

HPLC Column ID: Supelcogel H, 250mmX4.6mmX5um

Sample Amount: 1

Dilution Factor: 1

Heading 2 = 0.15% H₃PO₄

Raw File: C:\CPWIN\DATA1\X11318.10R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4 Area Width: 0.1 Area Reject: 100

Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
3.98	25394	68070	.047		
4.21	1573	9449	.085	44.2402	Opex
4.335	2514	18036	.139		
4.639	205	1124	.143		
6.147	219	5311	.516		
6.777	48	482	.26		

FILES:

Area file: C:\CPWIN\DATA1\X11318.10A

Method file: C:\CPWIN\DATA1\OPEX.MET

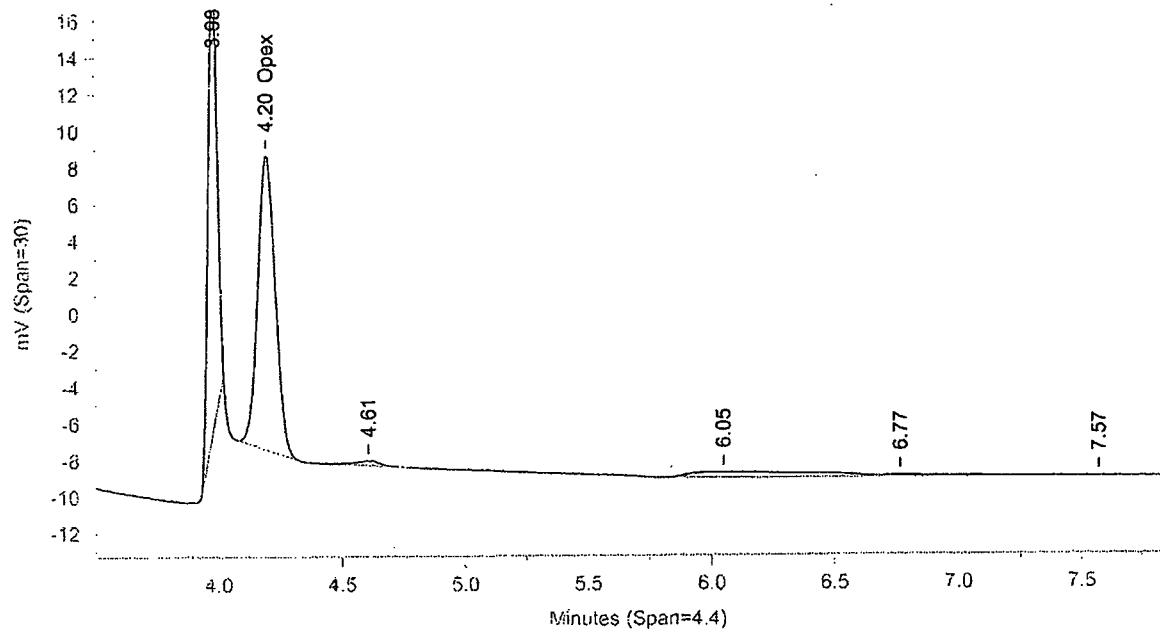
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Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/14/2012 3:18:14 PM

File reported on: 11/14/2012 at 3:18:15 PM

Opex in water



Sample Name: OPEX31224D EIOPEX3EI CCAL 1231799999A

Instrument ID: CP09-X3593A

Injected on: 11/13/2012 11:39:04 PM

Volume Inj. per column: 1

HPLC Column ID: Supelcogel H, 250mmX4.6mmX5um

Sample Amount: 1

Dilution Factor: 1

Heading 2 = 0.15% H3PO4

Raw File: C:\CPWIN\DATA1\IX11318.21R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4 Area Width: 0.1 Area Reject: 100

Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
3.98	24601	65964	.048		
4.195	16161	78332	.078	454.5078	Opex
4.608	257	1716	.199		
6.05	294	12879	.664		
6.768	46	882	.402		
7.573	31	347	.21		

FILES:

Area file: C:\CPWIN\DATA1\IX11318.21A

Method file: C:\CPWIN\DATA1\OPEX.MET

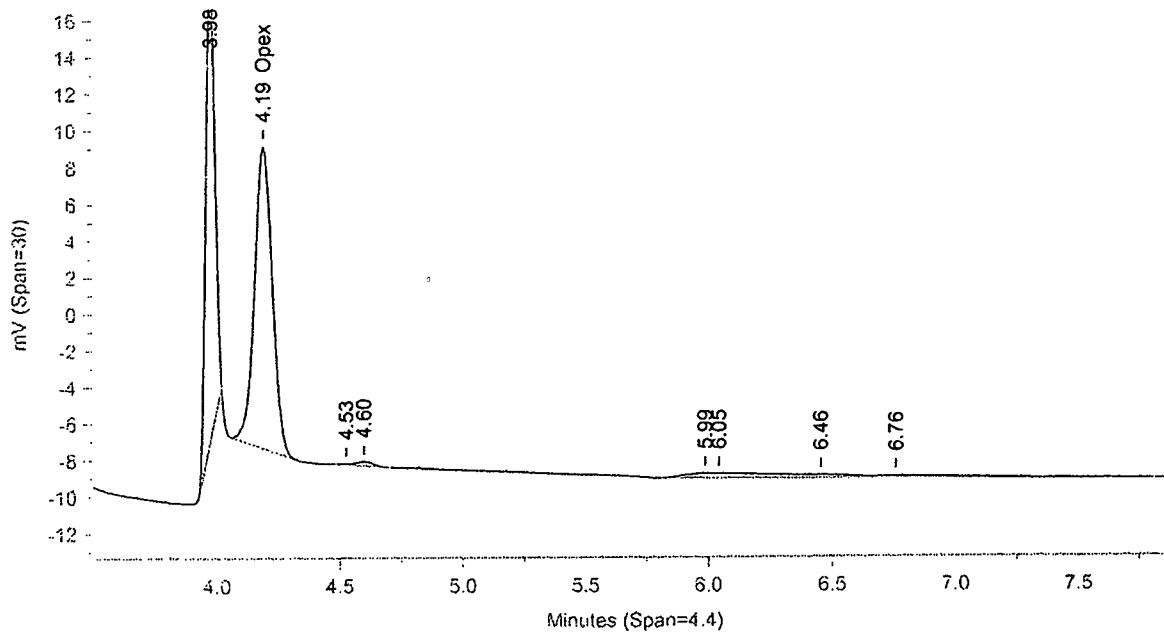
Calibration File: C:\CPWIN\DATA1\IX11318.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/14/2012 3:20:32 PM

File reported on: 11/14/2012 at 3:20:34 PM

Opex in water



Sample Name: OPEX31224D EJOPEX3EJ CCAL 1231799999A

Instrument ID: CP09--X3593A

Injected on: 11/14/2012 1:36:33 AM

Volume Inj. per column: 1

HPLC Column ID: Supelcogel H, 250mmX4.6mmX5um

Sample Amount: 1

Dilution Factor: 1

Heading 2 = 0.15% H3PO4

Raw File: C:\CPWIN\DATA1\IX11318.32R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4	Area	Width: 0.1	Area Reject: 100
Calib. Type: External		Quantitation: HEIGHT	

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
3.366	438	2904	.151	.	
3.979	24678	66909	.048	.	
4.192	16548	82639	.079	465.3918	Opex
4.529	62	123	.033	.	
4.6	222	1146	.112	.	
5.989	255	10894	.111	.	
6.046	25	622	.226	.	
6.457	54	553	.176	.	
6.759	51	1035	.506	.	

FILES:

Area file: C:\CPWIN\DATA1\IX11318.32A

Method file: C:\CPWIN\DATA1\OPEX.MET

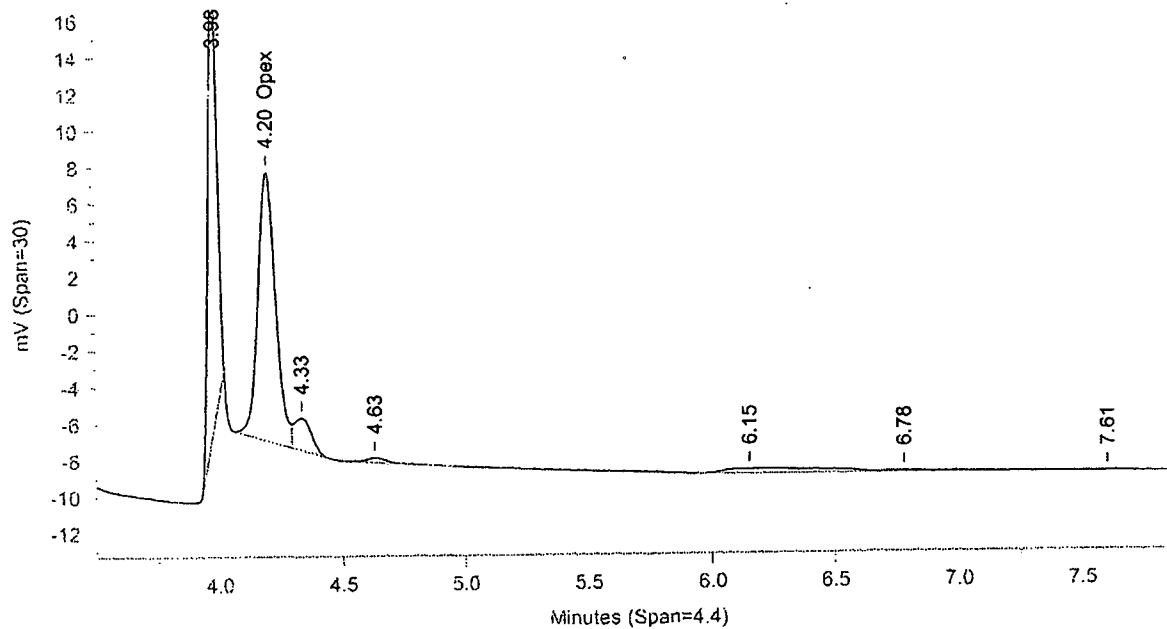
Calibration File: C:\CPWIN\DATA1\IX11318.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/14/2012 3:22:52 PM

File reported on: 11/14/2012 at 3:22:54 PM

Opx in water



Sample Name:OPEX31224D EKOPEX3EK CCAL 1231799999A

Instrument ID:CP09--X3593A

Injected on: 11/14/2012 2:19:03 AM

Volume Inj. per column: 1

HPLC Column ID: Supelcogel H, 250mmX4.6mmX5um

Sample Amount: 1

Dilution Factor: 1

Heading 2 = 0.15% H₃PO₄

Raw File: C:\CPWIN\DATA\1\X11318.36R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4	Area	Width: 0.1	Area Reject: 100
Calib. Type: External		Quantitation: HEIGHT	

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
.038	33	114	.081	.	
3.981	24534	65302	.048	.	
4.197	14737	72714	.073	414.4479	Opx
4.334	1777	8381	.088	.	
4.63	259	1473	.162	.	
6.154	264	10571	.527	.	
6.782	44	986	.381	.	
7.606	37	363	.18	.	

FILES:

Area file: C:\CPWIN\DATA\1\X11318.36A

Method file: C:\CPWIN\DATA\1\OPEX.MET

Calibration File: C:\CPWIN\DATA\1\X11318.CAL

Format File: C:\CPWIN\DATA\1\FORM.FMT

Area file created on: 11/14/2012 3:23:44 PM

File reported on: 11/14/2012 at 3:23:46 PM

Lancaster Laboratories
CHROM PERFECT SEQUENCE FILE

Sequence File: \\cp9\C-Drive\CPWIN\data1\1x11320.seq

Chromatography Directory: \\cp9\C-Drive\CPWIN\data1

Method Directory: \\cp9\C-Drive\CPWIN\data1

Number of Entries: 35

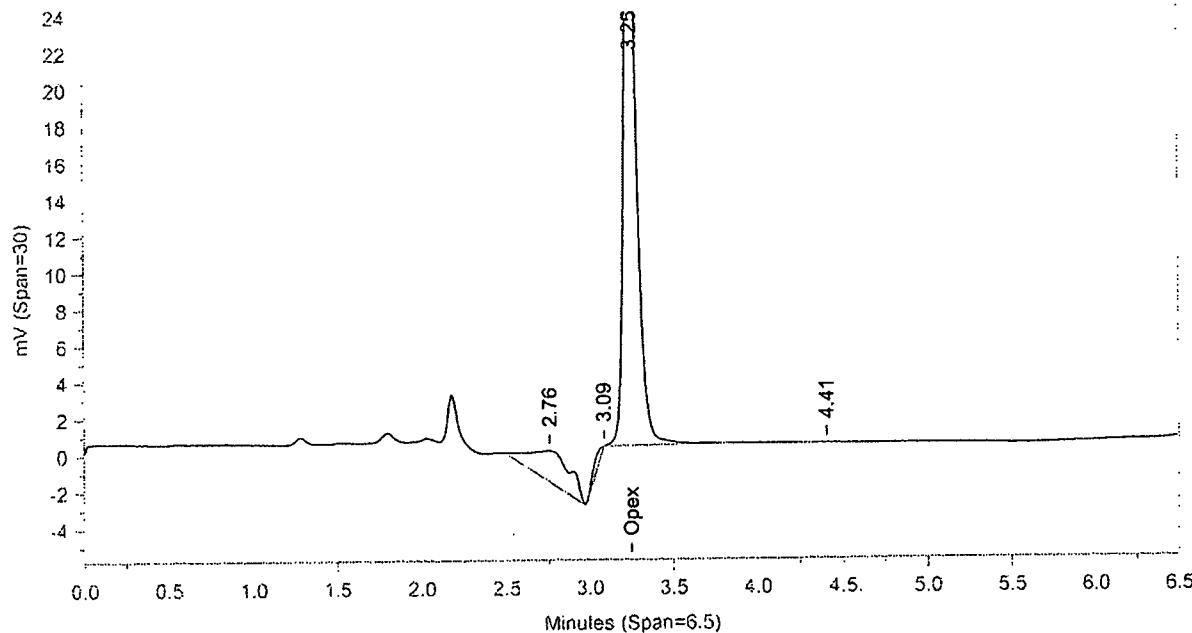
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2 CONDITIONER		MISC	AA	1x11320.02R	OPEXB.MET	1	1	1	0	1231999999	
3 CONDITIONER		MISC	AA	1x11320.03R	OPEXB.MET	1	1	1	0	1231999999	
4 OPEX51224D		ICAL	AA	1x11320.04R	OPEXB.MET	1	1	1	5	1231999999	
5 OPEX41224D		ICAL	AA	1x11320.05R	OPEXB.MET	1	1	1	4	1231999999	
6 OPEX31224D		ICAL	AA	1x11320.06R	OPEXB.MET	1	1	1	3	1231999999	
7 OPEX21224D		ICAL	AA	1x11320.07R	OPEXB.MET	1	1	1	2	1231999999	
8 OPEX11224D		ICAL	AA	1x11320.08R	OPEXB.MET	1	1	1	1	1231999999	
9 MDODXX1224D		ICAL	AA	1x11320.09R	OPEXB.MET	1	1	1	0	1231999999	
10 BLANKA 11/13/12 RI		BLK	AA	1x11320.10R	OPEXB.MET	10	10	1	0	123180032A	02726
11 LCSA 11/13/12 RI		LCS	AA	1x11320.11R	OPEXB.MET	10	10	1	0	123180032A	02726
12 LCSDA 11/13/12 RI		LCSD	AA	1x11320.12R	OPEXB.MET	10	10	1	0	123180032A	02726
13 BLANKA 11/13/12 RI		BLK	AA	1x11320.13R	OPEXB.MET	10	10	1	0	123180033A	
14 MDL1 11/13/12 RI		MDL	AA	1x11320.14R	OPEXB.MET	50	50	1	0	123180033A	
15 MDL2 11/13/12 RI		MDL	AA	1x11320.15R	OPEXB.MET	50	50	1	0	123180033A	
16 MDL3 11/13/12 RI		MDL	AA	1x11320.16R	OPEXB.MET	50	50	1	0	123180033A	
17 MDL4 11/13/12 RI		MDL	AA	1x11320.17R	OPEXB.MET	50	50	1	0	123180033A	
18 MDL5 11/13/12 RI		MDL	AA	1x11320.18R	OPEXB.MET	50	50	1	0	123180033A	
19 MDL6 11/13/12 RI		MDL	AA	1x11320.19R	OPEXB.MET	50	50	1	0	123180033A	
20 OPEX31224D		CCAL	EL	1x11320.20R	OPEXB.MET	1	1	1	0	1231999999	
21 MDL7 11/13/12 RI		MDL	AA	1x11320.21R	OPEXB.MET	50	50	1	0	123180033A	
22 6854278 RI		T	AA	1x11320.22R	OPEXB.MET	10	10	1	0	123180032A	02726
23 6854279 RI		T	AA	1x11320.23R	OPEXB.MET	10	10	1	0	123180032A	02726
24 6854280 RI		T	AA	1x11320.24R	OPEXB.MET	10	10	1	0	123180032A	02726
25 6854281 RI		T	AA	1x11320.25R	OPEXB.MET	10	10	1	0	123180032A	02726
26 6854282 RI		T	AA	1x11320.26R	OPEXB.MET	10	10	1	0	123180032A	02726
27 6854283 RI		T	AA	1x11320.27R	OPEXB.MET	10	10	1	0	123180032A	02726
28 6854284 RI		T	AA	1x11320.28R	OPEXB.MET	10	10	1	0	123180032A	02726
29 6854285 RI		T	AA	1x11320.29R	OPEXB.MET	10	10	1	0	123180032A	02726
30 6854286MS RI		MS	AA	1x11320.30R	OPEXB.MET	10	10	1	0	123180032A	02726
31 OPEX31224D		CCAL	EM	1x11320.31R	OPEXB.MET	1	1	1	0	1231999999	
32 6854287MSD RI		MSD	AA	1x11320.32R	OPEXB.MET	10	10	1	0	123180032A	02726
33 6854289 RI		T	AA	1x11320.33R	OPEXB.MET	10	10	1	0	123180032A	02726
34 6854322 RI		T	AA	1x11320.34R	OPEXB.MET	10	10	1	0	123180032A	02726
35 OPEX31224D		CCAL	EN	1x11320.35R	OPEXB.MET	1	1	1	0	1231999999	

Set-up by:

11/15/2012

Date: 11/15/12

Opex in water



Sample Name: OPEX51224D AAOPEXSAA ICAL 1231999999A

Instrument ID: CP09--X3593A

Injected on: 11/15/2012 5:33:20 PM

Volume Inj. per column: 1

HPLC Column ID: Supelcosil LC PAH, 250mmX4.6mmX5um

Sample Amount: 1

Dilution Factor: 1

Heading 2 = 75% Phosphate buffer: 25%ACN

Raw File: C:\CPWIN\DATA1\IX11320.04R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4 Area Width: 0.1 Area Reject: 100

Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.76	1693	28662	5.091		
3.088		3470	.07		
3.249	33335	175413	.078	937.4979	Opex
4.41	12	114	.203		

FILES:

Area file: C:\CPWIN\DATA1\IX11320.04A

Method file: C:\CPWIN\DATA1\OPEXB.MET

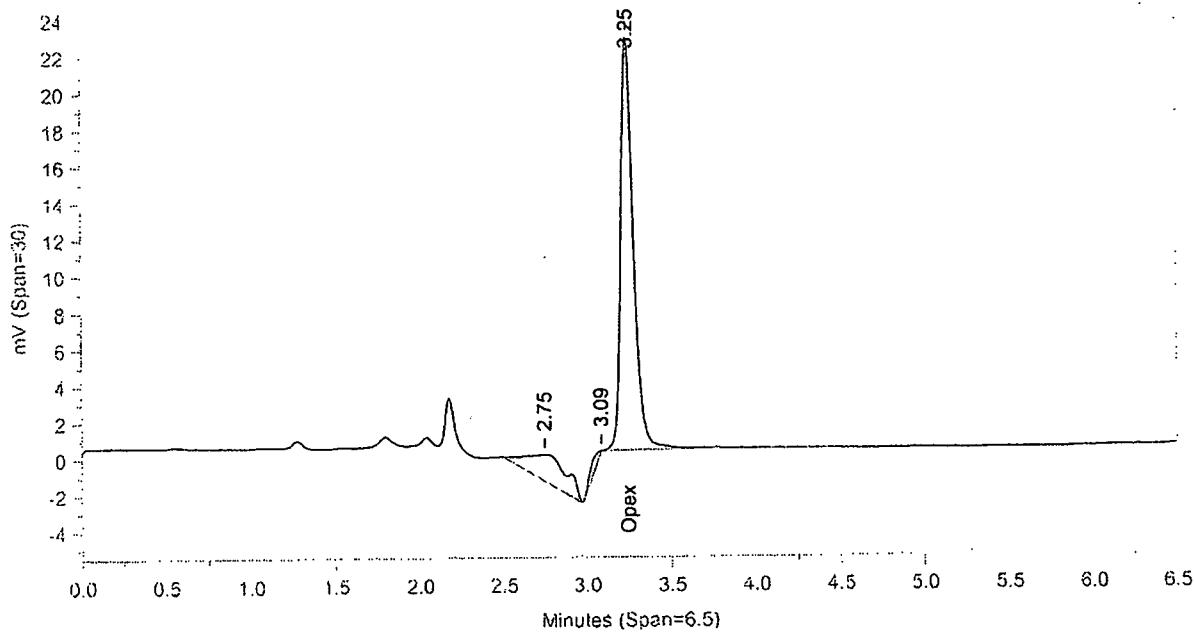
Calibration File: C:\CPWIN\DATA1\IX11320.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/15/2012 6:30:32 PM

File reported on: 11/15/2012 at 6:30:34 PM

Opex in water



Sample Name: OPEX41224D AAOPEX4AA ICAL 1231999999A

Instrument ID: CP09-X3593A

Injected on: 11/15/2012 5:43:57 PM

Volume Inj. per column: 1

HPLC Column ID: Supelcosil LC PAH, 250mmX4.6mmX5um

Sample Amount: 1

Dilution Factor: 1

Heading 2 = 75% Phosphate buffer: 25%ACN

Raw File: C:\CPWIN\DATA1\IX11320.05R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4 Area Width: 0.1 Area Reject: 100

Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.749	1417	24991	.424		
3.088		3413	.072		
3.246	22712	119232	.077	658.7177	Opex

FILES:

Area file: C:\CPWIN\DATA1\IX11320.05A

Method file: C:\CPWIN\DATA1\OPEXB.MET

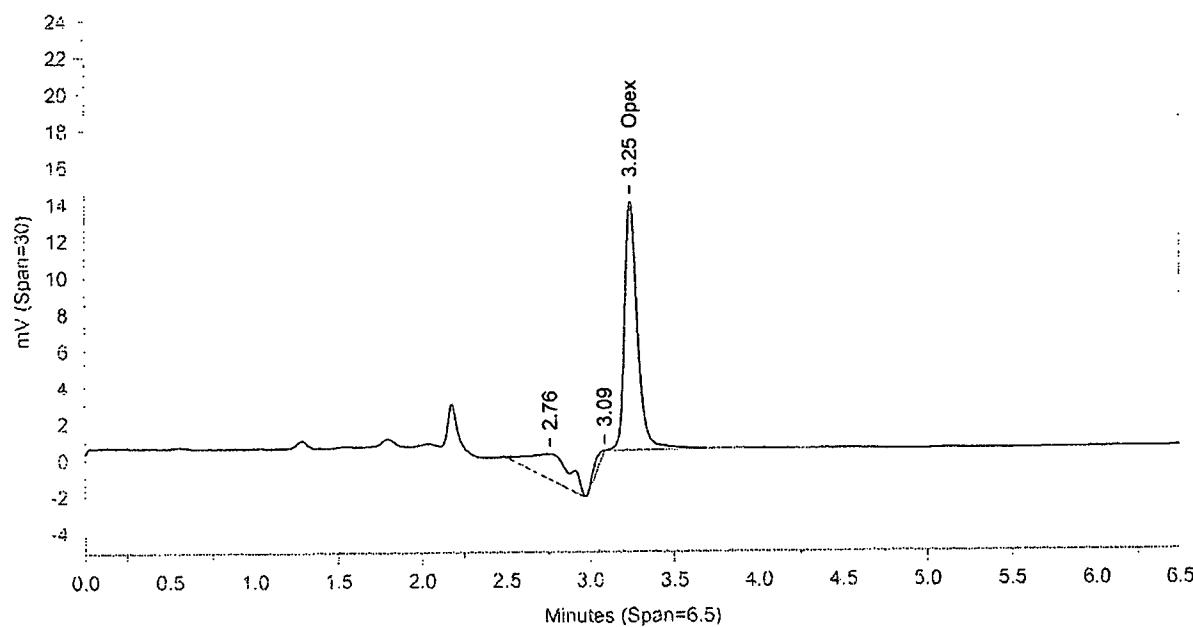
Calibration File: C:\CPWIN\DATA1\IX11320.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/15/2012 6:30:48 PM

File reported on: 11/15/2012 at 6:30:49 PM

Opex in water



Sample Name: OPEX31224D AAOPEX3AA ICAL 1231999999A

Instrument ID: CP09-X3593A

Injected on: 11/15/2012 5:54:33 PM

Volume Inj. per column: 1

HPLC Column ID: Supelcosil LC PAH, 250mmX4.6mmX5um

Sample Amount: 1

Dilution Factor: 1

Heading 2 = 75% Phosphate buffer: 25%ACN

Raw File: C:\CPWIN\DATA1\IX11320.06R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4 Area Width: 0.1

Area Reject: 100

Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.761	1403	23529	6.064		
3.088		3034	.072		
3.247	13665	73724	.078	407.8231	Opex

FILES:

Area file: C:\CPWIN\DATA1\IX11320.06A

Method file: C:\CPWIN\DATA1\OPEXB.MET

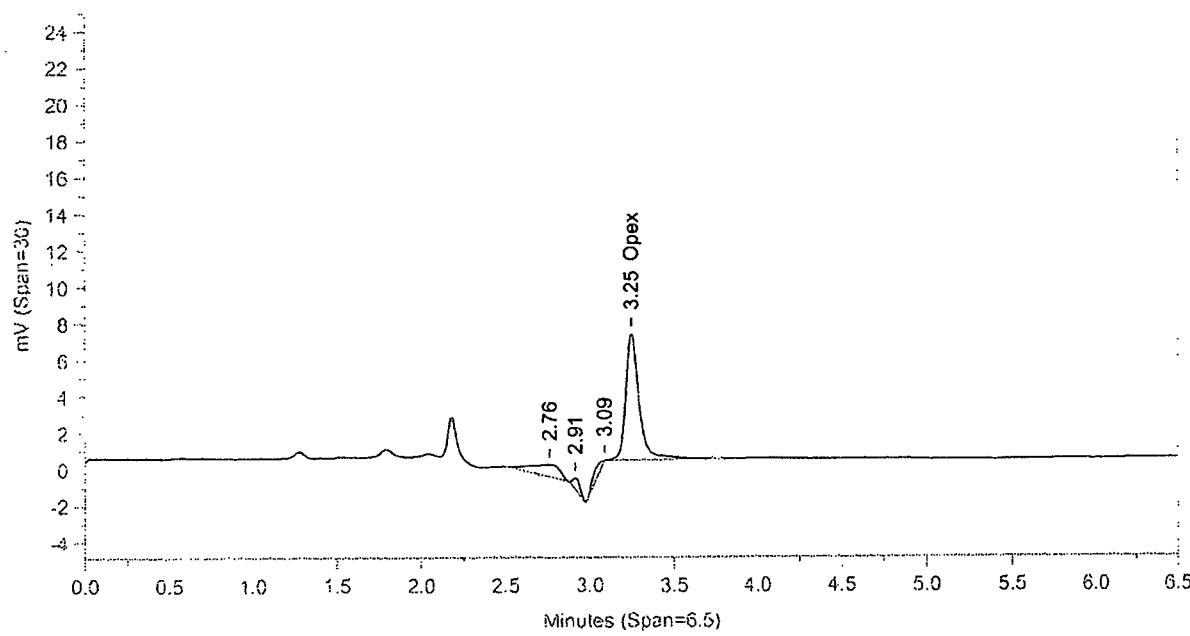
Calibration File: C:\CPWIN\DATA1\IX11320.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/15/2012 6:31:02 PM

File reported on: 11/15/2012 at 6:31:03 PM

Opex in water



Sample Name: OPEX21224D AAOPEX2AA ICAL 1231999999A

Instrument ID: CP09--X3593A Injected on: 11/15/2012 6:05:11 PM
Volume Inj. per column: 1 HPLC Column ID: Supelcosil LC PAH, 250mmX4.6mmX5um
Sample Amount: 1 Dilution Factor: 1
Heading 2 = 75% Phosphate buffer: 25%ACN
Raw File: C:\CPWIN\DATA1\X11320.07R
Analyst: 1566

Integration & Calculation Parameters:

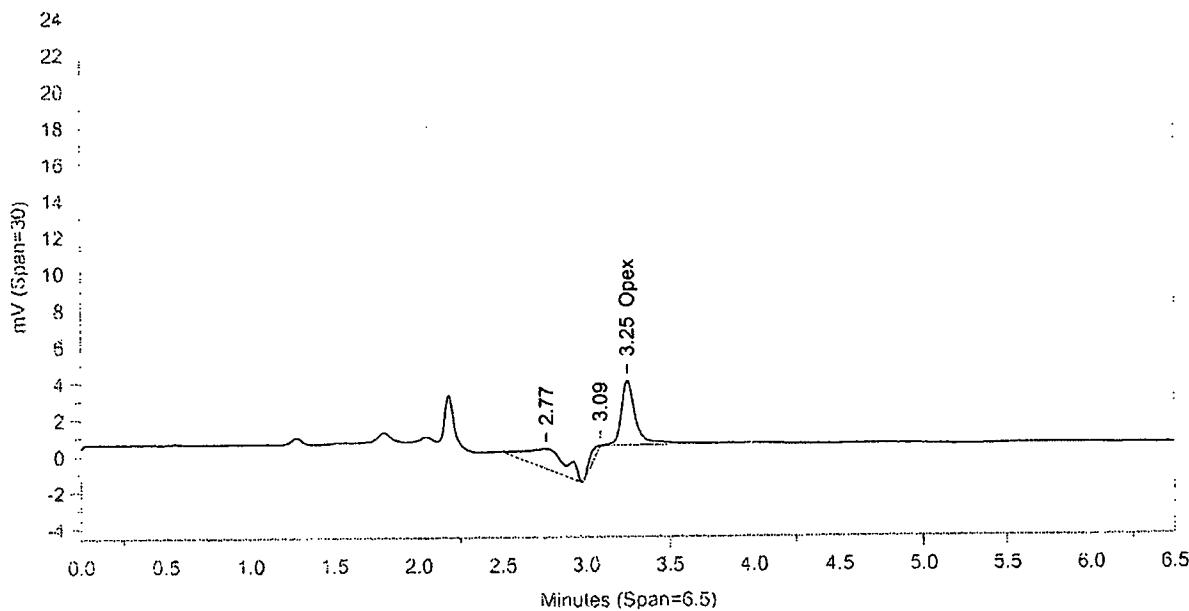
Threshold: -4 Area Width: 0.1 Area Reject: 100
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.763	690	7985	.33	.	
2.914	667	1740	.068	.	
3.088		2817	.072	.	
3.249	6962	39201	.079	216.0355	Opex

FILES:

Area file: C:\CPWIN\DATA1\X11320.07A
Method file: C:\CPWIN\DATA1\OPEXB.MET
Calibration File: C:\CPWIN\DATA1\X11320.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
Area file created on: 11/15/2012 6:31:16 PM
File reported on: 11/15/2012 at 6:31:18 PM

Opex in water



Sample Name: OPEX11224D AAOPEX1AA ICAL 1231999999A

Instrument ID: CP09--X3593A

Injected on: 11/15/2012 6:15:48 PM

Volume Inj. per column: 1

HPLC Column ID: Supelcosil LC PAH, 250mmX4.6mmX5um

Sample Amount: 1

Dilution Factor: 1

Heading 2 = 75% Phosphate buffer: 25%ACN

Raw File: C:\CPWIN\DATA1\IX11320.08R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4 Area Width: 0.1 Area Reject: 100

Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.767	1094	17892	.444	.	
3.088		2598	.072		
3.253	3544	21999	.08	113.1261	Opex

FILES:

Area file: C:\CPWIN\DATA1\IX11320.08A

Method file: C:\CPWIN\DATA1\OPEXB.MET

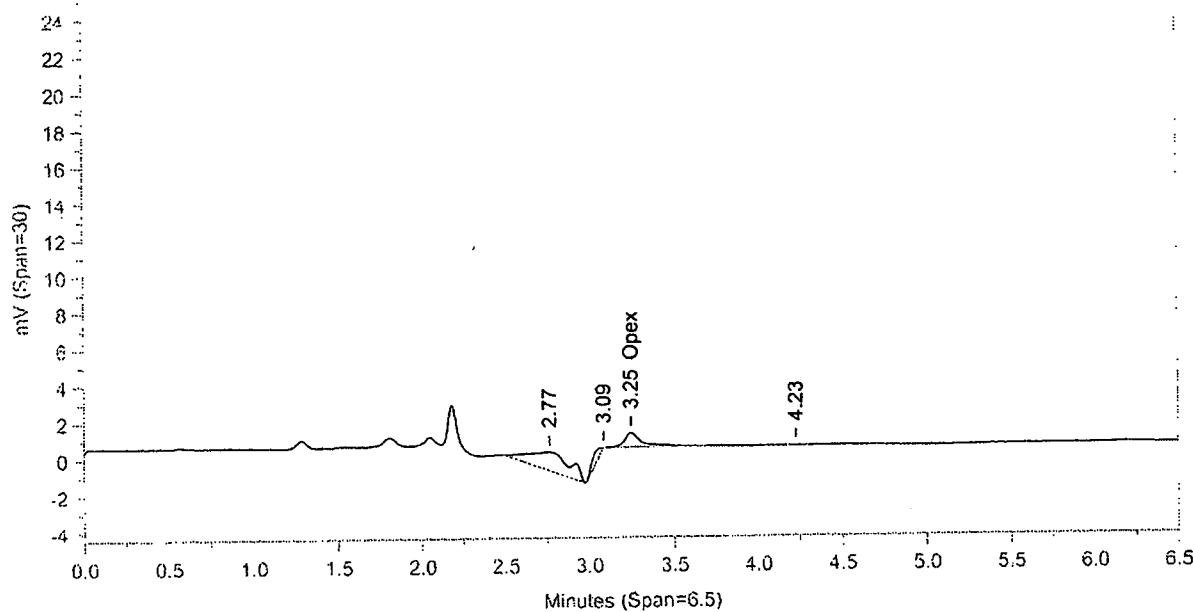
Calibration File: C:\CPWIN\DATA1\IX11320.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/15/2012 6:31:32 PM

File reported on: 11/15/2012 at 6:31:33 PM

Opex in water



Sample Name:MDOXX1224D AAMDOXXAA ICAL 1231999999A

Instrument ID:CP09--X3593A

Injected on: 11/15/2012 6:26:24 PM

Volume Inj. per column: 1

HPLC Column ID: Supelcosil LC PAH, 250mmX4.6mmX5um

Sample Amount: 1

Dilution Factor: 1

Heading 2 = 75% Phosphate buffer: 25%ACN

Raw File: C:\CPWIN\DATA1\IX11320.09R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4	Area	Width: 0.1	Area Reject: 100
Calib. Type: External		Quantitation: HEIGHT	

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.766	1031	16942	.443		
3.088		2703	.074		
3.25	771	5703	.088	25.4176	Opex
4.23	9	117	.237		

FILES:

Area file: C:\CPWIN\DATA1\IX11320.09A

Method file: C:\CPWIN\DATA1\OPEXB.MET

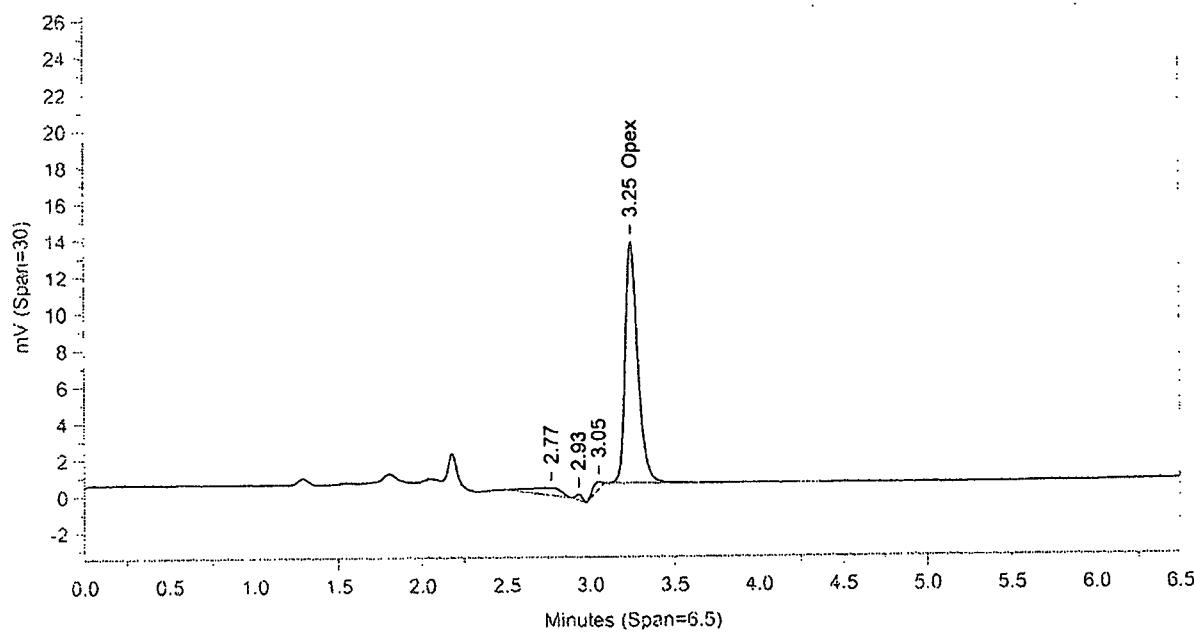
Calibration File: C:\CPWIN\DATA1\IX11320.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/15/2012 6:34:26 PM

File reported on: 11/15/2012 at 6:34:27 PM

Opex in water



Sample Name: OPEX31224D ELOPEX3EL CCAL 1231999999A

Instrument ID: CP09--X3593A

Injected on: 11/15/2012 8:23:09 PM

Volume Inj. per column: 1

HPLC Column ID: Supelcosil LC PAH, 250mmX4.6mmX5um

Sample Amount: 1

Dilution Factor: 1

Heading 2 = 75% Phosphate buffer: 25%ACN

Raw File: C:\CPWIN\DATA1\IX11320.20R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4 Area Width: 0.1 Area Reject: 100

Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.77	413	5084	1.17	.	
2.933	305	746	.063	.	
3.054	383	2031	.077	.	
3.25	13198	69141	.078	434.9844	Opex

FILES:

Area file: C:\CPWIN\DATA1\IX11320.20A

Method file: C:\CPWIN\DATA1\OPEXB.MET

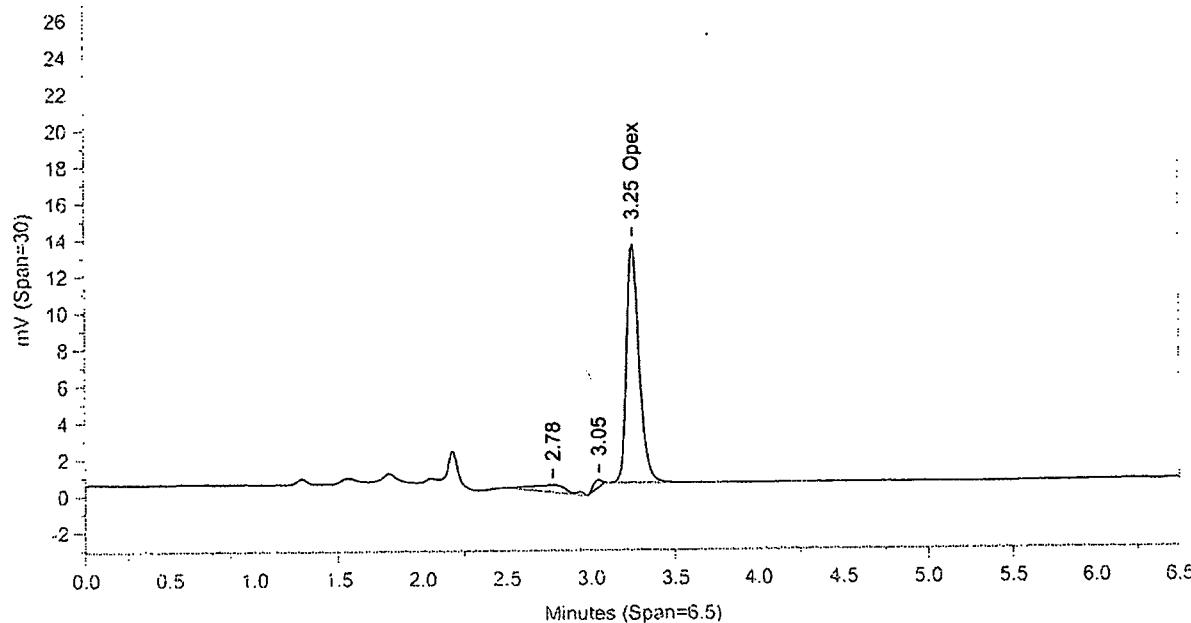
Calibration File: C:\CPWIN\DATA1\IX11320.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/15/2012 8:31:12 PM

File reported on: 11/15/2012 at 8:31:13 PM

Opex in water



Sample Name: OPEX31224D EMOPEX3EM CCAL 1231999999A

Instrument ID: CP09--X3593A

Injected on: 11/15/2012 10:20:34 PM

Volume Inj. per column: 1

HPLC Column ID: Supelcosil LC PAH, 250mmX4.6mmX5um

Sample Amount: 1

Dilution Factor: 1

Heading 2 = 75% Phosphate buffer: 25%ACN

Raw File: C:\CPWIN\DATA1\IX11320.31R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4 Area Width: 0.1 Area Reject: 100

Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.777	405	5752	.646	.	
3.048	402	1728	.078	.	
3.251	13064	68367	.078	430.5489	Opex

FILES:

Area file: C:\CPWIN\DATA1\IX11320.31A

Method file: C:\CPWIN\DATA1\OPEXB.MET

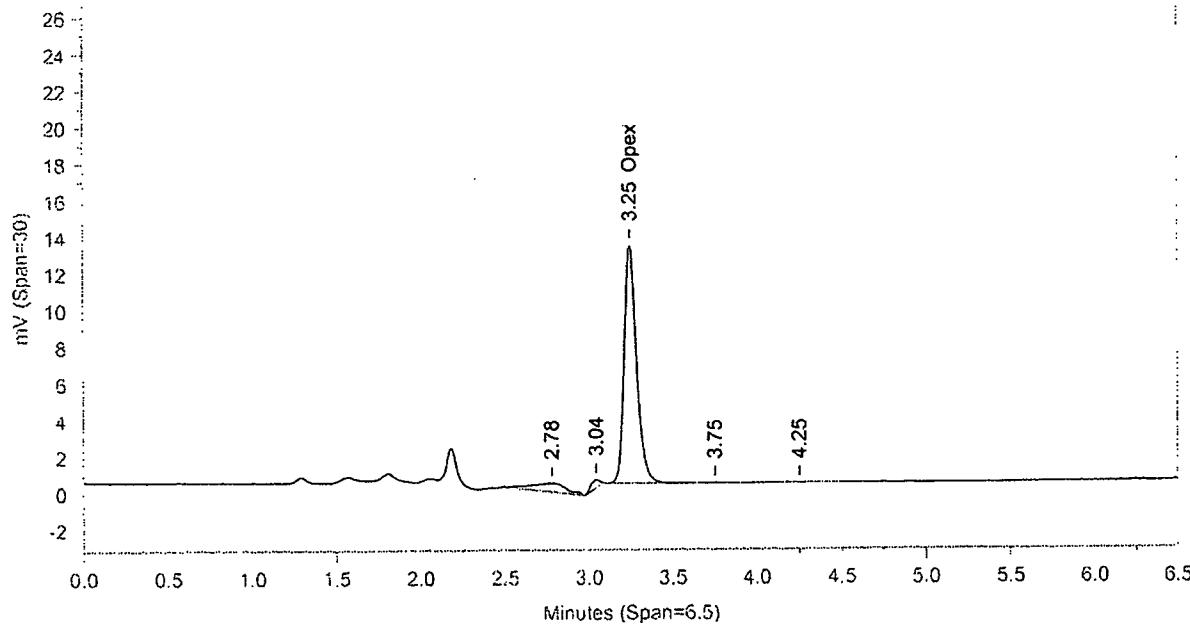
Calibration File: C:\CPWIN\DATA1\IX11320.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/15/2012 10:28:36 PM

File reported on: 11/15/2012 at 10:28:37 PM

Opex in water



Sample Name: OPEX31224D ENOPEX3EN CCAL 1231999999A

Instrument ID: CP09-X3593A

Injected on: 11/15/2012 11:03:01 PM

Volume Inj. per column: 1

HPLC Column ID: Supelcosil LC PAH, 250mmX4.6mmX5um

Sample Amount: 1

Dilution Factor: 1

Heading 2 = 75% Phosphate buffer: 25%ACN

Raw File: C:\CPWIN\DATA1\X11320.35R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4 Area Width: 0.1 Area Reject: 100

Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.78	476	6791	.615	.	
3.044	456	1837	.082	.	
3.249	13011	67982	.078	428.8159	Opex
3.751	13	123	.176	.	
4.251	11	111	.266	.	

FILES:

Area file: C:\CPWIN\DATA1\X11320.35A

Method file: C:\CPWIN\DATA1\OPEXB.MET

Calibration File: C:\CPWIN\DATA1\X11320.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/15/2012 11:11:02 PM

File reported on: 11/15/2012 at 11:11:04 PM

Raw QC Data

Lancaster Laboratories Single Component Data Summary

Sample Name: BLANKA 11/13/12 **PBLK32318** **Sample ID:** AA **Batchnumber:** 123180032A
Sample Amount: 10 ml **Total Volume:** 10 ml **Analyst:** 1566 **SDG:** **State:**
Analyses: 02726

Analysis Report (A)

Injected on : NOV 13, 2012 22:00:45
Instrument : CP09--X3593A
Result file : 1X11318.11R
Calibration file : 1X11318.CAL
Method file : OPEX.MET

Analysis Report (B)

Injected on : NOV 13, 2012 22:00:45
Instrument :
Result file :
Calibration file :
Method file :

<u>Peak name</u>	<u>Min</u>	<u>R.T.</u>	<u>Max</u>	<u>Height</u>	<u>Amount</u>
Opex	4.10	4.19	4.30	2109	59.311291

Summary Report

<u>Compound Name</u>	<u>Column</u>	<u>Amount Found</u>	<u>LOQ</u>	<u>MDL</u>	<u>Qualifiers</u>	<u>%RPD</u>	<u>Comments</u>
<input checked="" type="checkbox"/> Opex	_____	_____	<100	<20	_____	_____	_____

Units: ug/l

James H. Place
Senior Chemist

Reviewed by: _____

Date: NOV 16 2012

Verified by: _____

Date: NOV 19 2012

Valerie L. Farnsworth
Principal Specialist

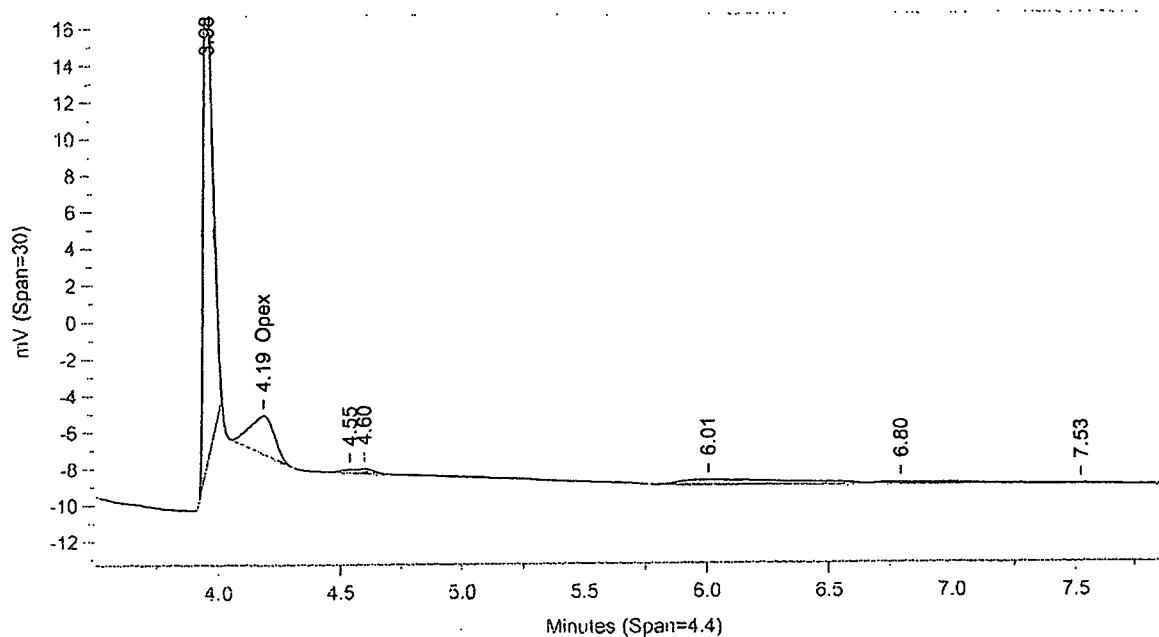
%RPD = High - Low Amount divided by the Average times 100

Higher Amount Found

* Recovery outside QC Limits

Printed on: 11/14/2012 15:27:36

Opex in water



Sample Name:BLANKA 11/13/12 AAPBLK32318 BLK 123180032A 02726A

Instrument ID:CP09-X3593A

Injected on: 11/13/2012 9:52:51 PM

Volume Inj. per column: 1

HPLC Column ID: Supelcogel H, 250mmX4.6mmX5um

Sample Amount: 10

Dilution Factor: 10

Heading 2 = 0.15% H3PO4

Raw File: C:\CPWIN\DATA\1\X11318.11R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4 Area Width: 0.1 Area Reject: 100

Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
3.347	239	1451	.126	.	
3.976	26632	72157	.048	.	
4.193	2109	14509	.186	59.3113	Opex
4.545	176	3858	.057	.	
4.605	138	502	.492	.	
6.011	257	10722	.528	.	
6.799	77	2253	.401	.	
7.527	53	962	.347	.	

FILES:

Area file: C:\CPWIN\DATA\1\X11318.11A

Method file: C:\CPWIN\DATA\1\OPEX.MET

Calibration File: C:\CPWIN\DATA\1\X11318.CAL

Format File: C:\CPWIN\DATA\1\FORM.FMT

Area file created on: 11/14/2012 3:18:26 PM

File reported on: 11/14/2012 at 3:18:28 PM

Lancaster Laboratories Single Component Data Summary

Sample Name: BLANKA 11/13/12 RI PBLK32318 Sample ID: AA Batch number: 123180032A
 Sample Amount: 10 ml Total Volume: 10 ml Analyst: 1566 SDG: State:
 Analyses: 02726 10342

Analysis Report (A)

Injected on : NOV 15, 2012 18:43:36
 Instrument : CP09-X3593A
 Result file : 1X11320.10R
 Calibration file : 1X11320.CAL
 Method file : OPEXB.MET

Peak name	Min	R.T.	Max	Height	Amount
Opex	3.15	3.32	3.35	137	4.528170

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
<input checked="" type="checkbox"/> Opex			<100	<20			

Units: ug/l

James H. Place
Senior Chemist

Reviewed by: _____

NOV 16 2012

Date: _____

Analysis Report (B)

Injected on : NOV 15, 2012 18:43:36
 Instrument :
 Result file :
 Calibration file :
 Method file :

Verified by:
 Valerie L. Torrance
Quality Control

Date: NOV 19 2012

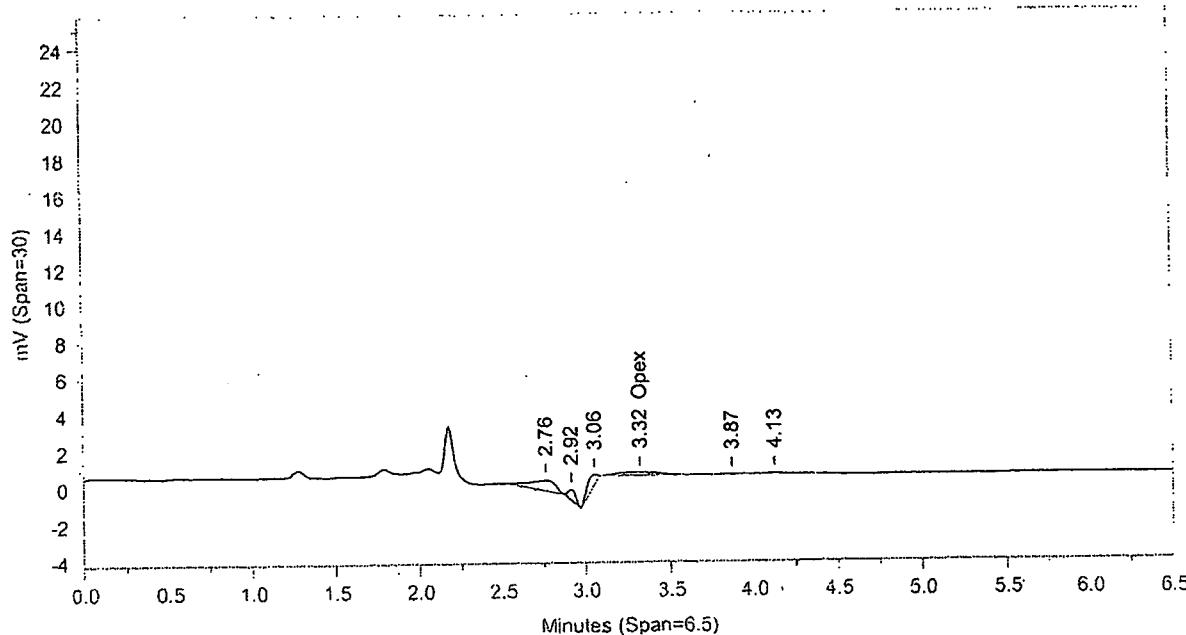
%RPD = High - Low Amount divided by the Average times 100

Higher Amount Found

* Recovery outside QC Limits

Printed on: 11/16/2012 14:16:53

Opex in water



Sample Name:BLANKA 11/13/12 RI AAPBLK32318 BLK 123180032A 02726A

Instrument ID:CP09-X3593A

Injected on: 11/15/2012 6:37:02 PM

Volume Inj. per column: 1

HPLC Column ID: Supelcosil LC PAH, 250mmX4.6mmX5um

Sample Amount: 10

Dilution Factor: 10

Heading 2 = 75% Phosphate buffer: 25%ACN

Raw File: C:\CPWIN\DATA1\1X11320.10R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: .4	Area	Width: 0.1	Area Reject: 100
Calib. Type: External		Quantitation: HEIGHT	

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.763	575	6082	.303		
2.917	599	1596	.067		
3.055	523	3303	.083		
3.321	137	2506	.321	4.5282	Opex
3.871	18	171	.212		
4.126	55	597	.257		

FILES:

Area file: C:\CPWIN\DATA1\1X11320.10A

Method file: C:\CPWIN\DATA1\OPEXB.MET

Calibration File: C:\CPWIN\DATA1\1X11320.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/15/2012 6:43:44 PM

File reported on: 11/15/2012 at 6:43:45 PM

Lancaster Laboratories Single Component Data Summary

Sample Name: LCSA 11/13/12 LCS32318 Sample ID: AA Batchnumber: 123180032A
Sample Amount: 10 ml Total Volume: 10 ml Analyst: 1566 SDG: State:
Analyses: 02726

Analysis Report (A)

Injected on : NOV 13, 2012 22:11:22
Instrument : CP09-X3593A
Result file : 1X11318.12R
Calibration file : 1X11318.CAL
Method file : OPEX.MET
%SSR(Opex) :

Peak name	Min	R.T.	Max	Height	Amount
Opex	4.10	4.20	4.30	25249	710.095215

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
<input checked="" type="checkbox"/> Opex			<100	<20			

Units: ug/l

Reviewed by: 
James H. Place
Senior Chemist

Date: NOV 16 2012

Analysis Report (B)

Injected on : NOV 13, 2012 22:11:22
Instrument :
Result file :
Calibration file :
Method file :

Verified by: 
Valerie L. Tommicka
Principal Specialist
Date: NOV 19 2012

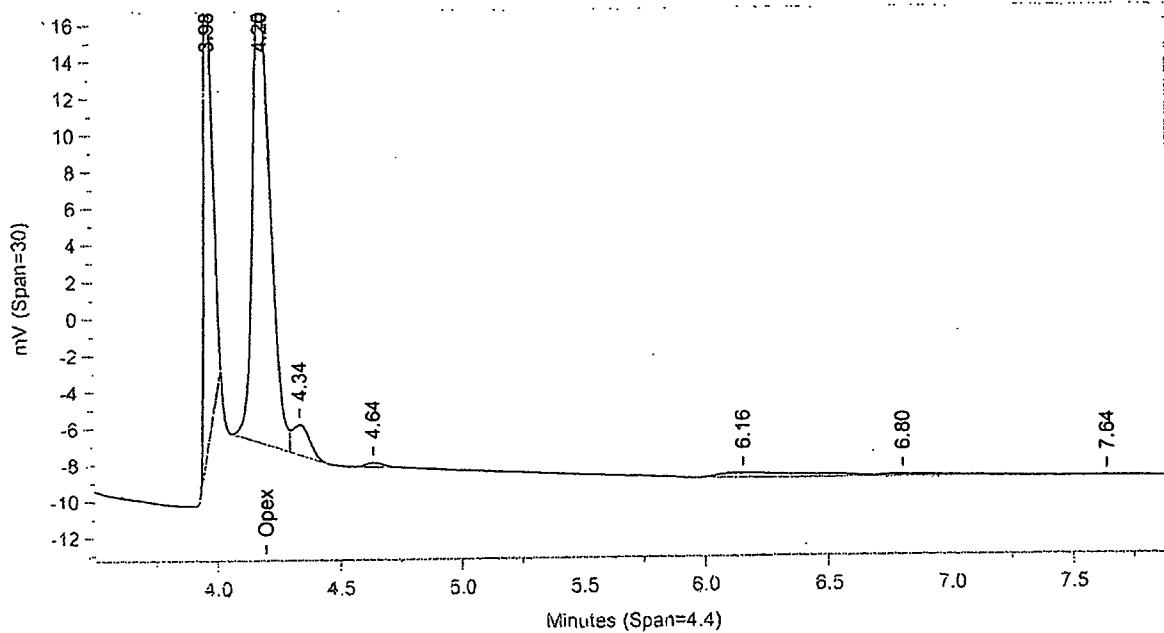
%RPD = High - Low Amount divided by the Average times 100

Higher Amount Found

* Recovery outside QC Limits

Printed on: 11/14/2012 15:28:13

Opex in water



Sample Name:LCSA 11/13/12 AALCS32318 LCS 123180032A 02726A

Instrument ID:CP09-X3593A

Injected on: 11/13/2012 10:03:28 PM

Volume Inj. per column: 1

HPLC Column ID: Supelcogel H, 250mmX4.6mmX5um

Sample Amount: 10

Dilution Factor: 10

Heading 2 = 0.15% H₃PO₄

Raw File: C:\CPWIN\DATA1\IX11318.12R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4	Area	Width: 0.1	Area Reject: 100
Calib. Type: External	Quantitation: HEIGHT		

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
3.981	25101	66400	.047		
4.198	25249	122549	.073	710.0952	Opex
4.341	1675	7741	.086		
4.639	253	2273	.306		
6.159	244	9795	.524		
6.801	63	2264	.556		
7.641	38	502	.231		

FILES:

Area file: C:\CPWIN\DATA1\IX11318.12A

Method file: C:\CPWIN\DATA1\OPEX.MET

Calibration File: C:\CPWIN\DATA1\IX11318.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/14/2012 3:18:40 PM

File reported on: 11/14/2012 at 3:18:41 PM

Lancaster Laboratories Single Component Data Summary

Sample Name: LCSA 11/13/12 RI LCS32318 Sample ID: AA Batchnumber: 123180032A
 Sample Amount: 10 ml Total Volume: 10 ml Analyst: 1566 SDG: State:
 Analyses: 02726 10342

Analysis Report (A)

Injected on : NOV 15, 2012 18:55:32
 Instrument : CP09-X3593A
 Result file : 1X11320.11R
 Calibration file : 1X11320.CAL
 Method file : OPEXB.MET
 %SSR(Opex) :

Peak name	Min	R.T.	Max	Height	Amount
Opex	3.15	3.25	3.35	22227	732.560852

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
<input checked="" type="checkbox"/> Opex			<100	<20			

Units: ug/l

James H. Place
Senior Chemist

Reviewed by: _____

Date: NOV 16 2012

Analysis Report (B)

Injected on : NOV 15, 2012 18:55:32
 Instrument :
 Result file :
 Calibration file :
 Method file :

Verified by: _____

Date: NOV 19 2012

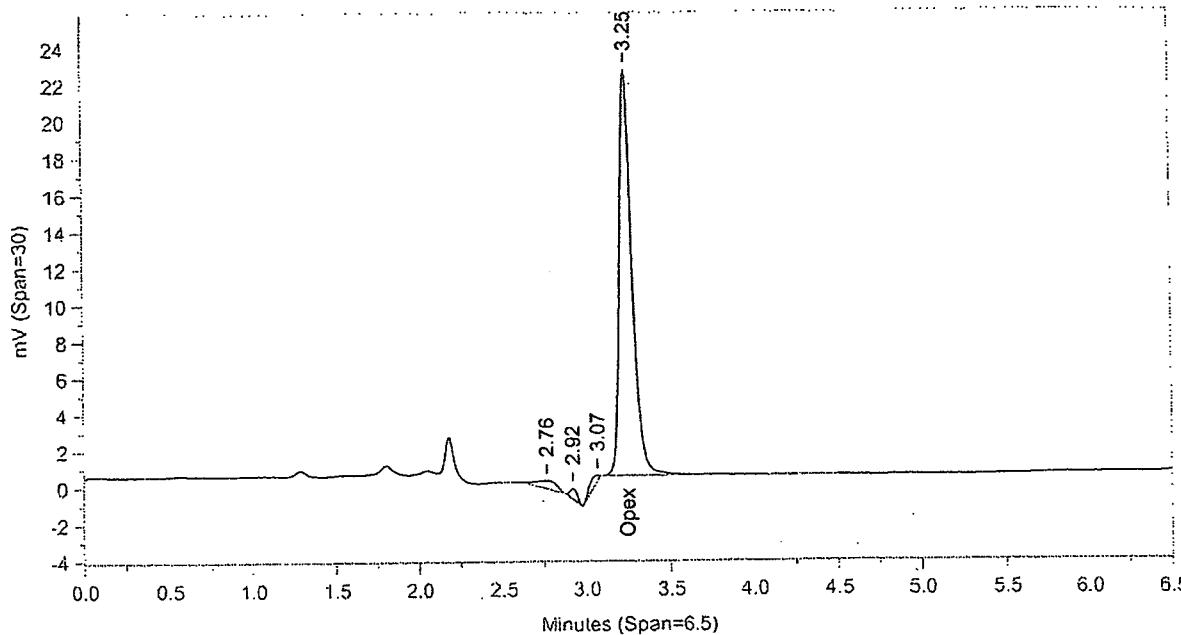
%RPD = High - Low Amount divided by the Average times 100

Higher Amount Found

* Recovery outside QC Limits

Printed on: 11/16/2012 14:16:58

Opex in water



Sample Name:LCSA 11/13/12 RI AALCS32318 LCS 123180032A 02726A

Instrument ID:CP09--X3593A

Injected on: 11/15/2012 6:47:38 PM

Volume Inj. per column: 1

HPLC Column ID: Supelcosil LC PAH, 250mmX4.6mmX5um

Sample Amount: 10

Dilution Factor: 10

Heading 2 = 75% Phosphate buffer: 25%ACN

Raw File: C:\CPWIN\DATA1\IX11320.I1R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4 Area Width: 0.1 Area Reject: 100

Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.764	437	3875	.222		
2.922	608	1619	.073		
3.07	243	2553	.076		
3.249	22227	116268	.078	732.5609	Opex

FILES:

Area file: C:\CPWIN\DATA1\IX11320.I1A

Method file: C:\CPWIN\DATA1\OPEXB.MET

Calibration File: C:\CPWIN\DATA1\IX11320.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/15/2012 6:55:40 PM

File reported on: 11/15/2012 at 6:55:41 PM

Lancaster Laboratories Single Component Data Summary

Sample Name: LCSDA 11/13/12 LCSD32318 Sample ID: AA Batch number: 123180032A
 Sample Amount: 10 ml Total Volume: 10 ml Analyst: 1566 SDG: State:
 Analyses: 02726

Analysis Report (A)

Injected on : NOV 13, 2012 22:21:59
 Instrument : CP09-X3593A
 Result file : 1X11318.13R
 Calibration file : 1X11318.CAL
 Method file : OPEX.MET
 %SSR(Opex) :

Peak name	Min	R.T.	Max	Height	Amount
Opex	4.10	4.20	4.30	26675	750.195374

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
<input checked="" type="checkbox"/> Opex			<100	<20			

Units: ug/l

Reviewed by: _____

James H. Place
Senior Chemist

Date: NOV 16 2012

Analysis Report (B)

Injected on : NOV 13, 2012 22:21:59
 Instrument :
 Result file :
 Calibration file :
 Method file :

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
<input checked="" type="checkbox"/> Opex			<100	<20			

Verified by: _____

Date: NOV 19 2012

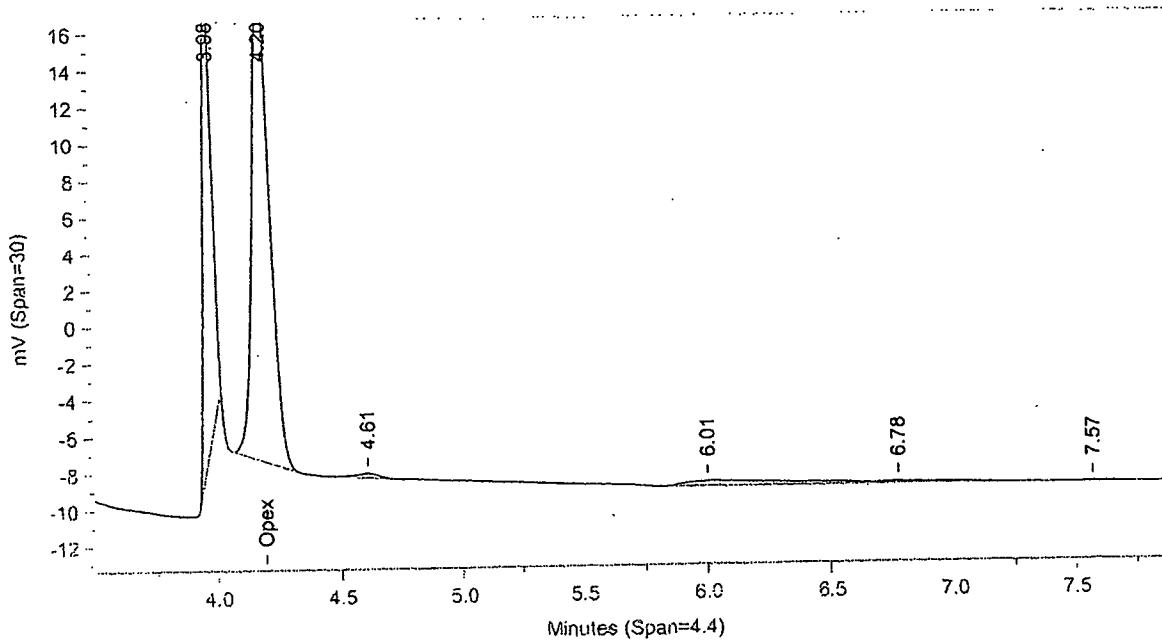
%RPD = High - Low Amount divided by the Average times 100

Higher Amount Found

* Recovery outside QC Limits

Printed on: 11/14/2012 15:28:17

Opex in water



Sample Name:LCSDA 11/13/12 AALCSD32318 LCSD 123180032A 02726A

Instrument ID:CP09--X3593A

Injected on: 11/13/2012 10:14:05 PM

Volume Inj. per column: 1

HPLC Column ID: Supelcogel H, 250mmX4.6mmX5um

Sample Amount: 10

Dilution Factor: 10

Heading 2 = 0.15% H3PO4

Raw File: C:\CPWIN\DATA1\IX11318.13R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4	Area	Width: 0.1	Area Reject: 100
Calib. Type: External		Quantitation: HEIGHT	

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
3.368	291	1974	.138		
3.98	25108	67230	.048		
4.196	26675	131435	.078	750.1954	Opex
4.614	240	1485	.181		
6.006	266	11742	.624		
6.777	67	1671	.455		
7.574	17	150	.213		

FILES:

Area file: C:\CPWIN\DATA1\IX11318.13A

Method file: C:\CPWIN\DATA1\OPEX.MET

Calibration File: C:\CPWIN\DATA1\IX11318.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/14/2012 3:18:52 PM

File reported on: 11/14/2012 at 3:18:54 PM

Lancaster Laboratories Single Component Data Summary

Sample Name: LCSDA 11/13/12 RI LCSD32318 Sample ID: AA Batch number: 123180032A
 Sample Amount: 10 ml Total Volume: 10 ml Analyst: 1566 SDG: State:
 Analyses: 02726 10342

Analysis Report (A)

Injected on : NOV 15, 2012 19:06:09
 Instrument : CP09-X3593A
 Result file : 1X11320.12R
 Calibration file : 1X11320.CAL
 Method file : OPEXB.MET
 %SSR(Opex) :

Peak name	Min	R.T.	Max	Height	Amount
Opex	3.15	3.25	3.35	22198	731.577271

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
<input checked="" type="checkbox"/> Opex	_____	_____	<100	_____	<20	_____	_____

Units: ug/l

James H. Place
Senior Chemist

Reviewed by: _____

Date: NOV 16 2012

Analysis Report (B)

Injected on : NOV 15, 2012 19:06:09
 Instrument :
 Result file :
 Calibration file :
 Method file :

Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
_____	_____	<100	_____	<20	_____	_____

Verified by: _____
 Date: NOV 19 2012

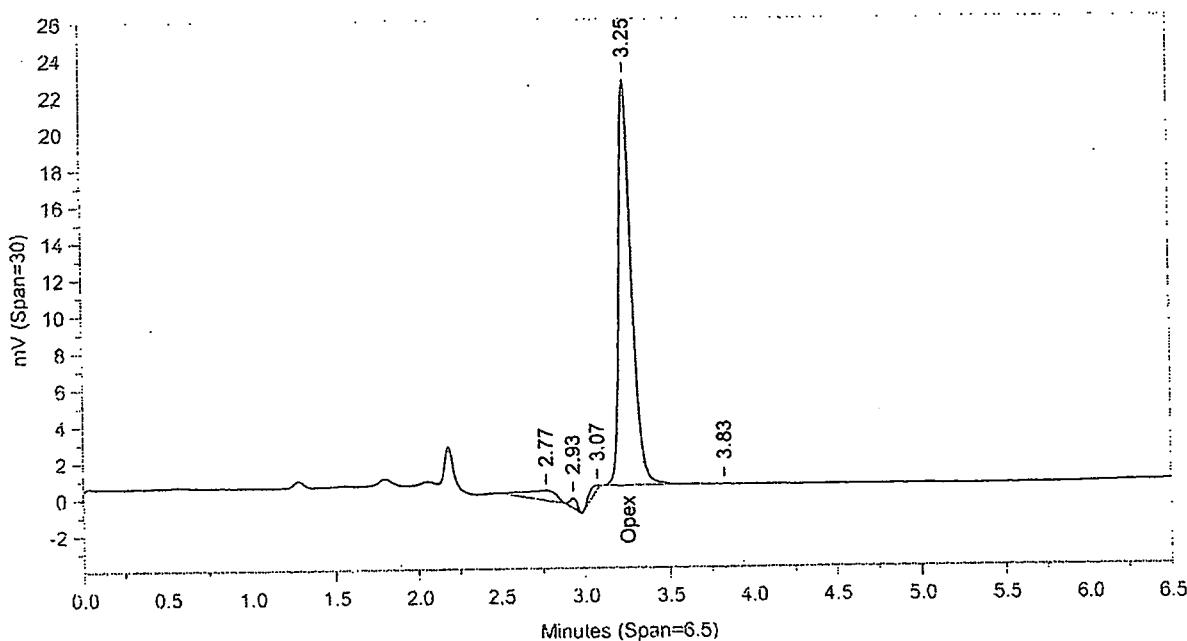
%RPD = High - Low Amount divided by the Average times 100

Higher Amount Found

* Recovery outside QC Limits

Printed on: 11/16/2012 14:17:02

Opex in water



Sample Name:LCSDA 11/13/12 RI AALCSD32318 LCSD 123180032A 02726A

Instrument ID:CP09-X3593A

Injected on: 11/15/2012 6:58:15 PM

Volume Inj. per column: 1

HPLC Column ID: Supelcosil LC PAH, 250mmX4.6mmX5um

Sample Amount: 10

Dilution Factor: 10

Heading 2 = 75% Phosphate buffer: 25%ACN

Raw File: C:\CPWIN\DATA1\X11320.12R

Analyst: 1566

Integration & Calculation Parameters:

Threshold: -4	Area	Width: 0.1	Area Reject: 100
Calib. Type: External		Quantitation: HEIGHT	

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.768	550	6479	.3.765	.	.
2.929	574	1474	.071	.	.
3.075	231	2211	.073	.	.
3.253	22198	116115	.078	731.5773	Opex
3.828	14	105	.164	.	.

FILES:

Area file: C:\CPWIN\DATA1\X11320.12A

Method file: C:\CPWIN\DATA1\OPEXB.MET

Calibration File: C:\CPWIN\DATA1\X11320.CAL

Format File: C:\CPWIN\DATA1\FORM.FMT

Area file created on: 11/15/2012 7:06:16 PM

File reported on: 11/15/2012 at 7:06:18 PM

Extraction/Distillation/Digestion Logs Data

Organic Extraction Batchlog Assigned to: 1566 James Place

Reviewed by: MTO47 Start Date: 11/8/12Tech 1: P.Sell Tech 2: J.M. RSS**123180032A**

Dept: 24 Prep Analysis: 00000

QC	Sample Code	Amt (mL)	SS/S Sol.	Amt (mL)	Opex in Water					Solvent Used	Lot No.
					FV (mL)	pH	pH	BC	Comments		
6854286MS	404M2	10			10	6.41	9.41				
6854287MSD	404M2	10			10	6.74	9.81				
BLANKA	PBLK32318	10			10						
LCSA	LCS32318	10			10						
LCSDA	LCSD32318	10			10						

Sample #	Sample Code	Amt (mL)	SS/S Sol.	Amt (mL)	Opex in Water					Comments	Analyses	Due Date	Prio
					FV (mL)	pH	pH	BC	Comments				
1	6854278	404S1	10		10	5.56	9.81	178a			02726	11/21/2012	P
2	6854279	404M1	10		10	5.96	9.46	178a			02726	11/21/2012	P
3	6854280	400BR	10		10	7.03	9.67	178a			02726	11/21/2012	P
4	6854281	400D1	10		10	7.93	9.36	178a	cloudy with sediment		02726	11/21/2012	P
5	6854282	404BR	10		10	7.05	9.05	178a			02726	11/21/2012	P
6	6854283	400D2	10		10	7.71	8.99	178a	light + brown		02726	11/21/2012	P
7	6854284	404S2	10		10	6.24	8.92	178a			02726	11/21/2012	P
8	6854285BKG	404M2	10		10	6.77	9.13	178a			02726	11/21/2012	P
9	6854289	404MD	10		10	6.69	9.33	178a			02726	11/21/2012	P
10	6854322	SW-7-	10		10	7.59	9.61	178a			02726	11/21/2012	P

(3) 11/8/12 13:40:12

(3) 11/8/12 13:40:12

Rack ID:	Internal Standard	Work Station	S-bath ID			C	S-bath ID	C	N-Evap	C	M-vap	C	123180032A
			Balance #										
DF = Dilution Factor	FV = Final Volume	Documented temps are NIST corrected.											

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Rack ID: Internal Standard Work Station Balance #

S-bath ID C S-bath ID C N-Evap C M-vap C

